



One South Church Street
Second Floor
West Chester, PA 19382
T: 610-429-8907
F: 610-429-8918
www.pennoni.com

May 30, 2017

CFTP 0000

Amanda Serock, Township Manager
Chadds Ford Township
10 Ring Road
Chadds Ford, PA 19317

Re: Traffic Volume Comparison – Shops at Ridge Road Development

Dear Amanda:

As requested, we have completed traffic volume projections based on recently collected traffic data to compare with previous traffic studies associated with the Shops at Ridge Road development located on the southwest corner of the Route 202 and Ridge Road (SR 3048) intersection. The comparison is intended to check the validity of past count data and future volume projections utilized in the design of roadway and traffic signal improvements associated with the development.

The proposed Shops at Ridge Road development received land development approval from Concord Township and Highway Occupancy Permit approval from PennDOT. A Traffic Impact Study was completed by McMahon Associates dated February 16, 2010 (last revised April 7, 2011) as part of the HOP application. Additionally, a Traffic Evaluation was completed by McMahon dated September 12, 2014 that included updated counts and analyses for the intersection of Route 202 & Ridge Road.

This comparison will consider the total peak hour volume through the intersection of Route 202 & Ridge Road, as the majority of the proposed improvements are located at this intersection and other intersections were not included in the 2014 McMahon Traffic Evaluation. The weekday PM peak hour was selected at the design hour for this comparison as it had the highest intersection volume per the updated 2017 traffic counts.

2014 McMahon Traffic Evaluation

The 2014 updated analysis completed for this development included updated count data for the intersection of Route 202 & Ridge Road, and updated future traffic projections. The counts were conducted on July 29, 2014 and August 2, 2014. The study included a projected build year of 2019, and a future design year of 2024. In order to project future traffic conditions without the development traffic, a background traffic growth rate of 0.51% compounded annually was applied to the 2014 counted traffic volumes. The growth rate is based on data from PennDOT's Bureau of Planning and Research. In addition to the growth rate, the study included future volumes from the following planned area developments:

- Shops at Spring Lake – 164,240 square foot retail development
- Brandywine Mills (Wegmans Site)
- Vineyard Commons – 171 Single-family home development

The resultant base 2024 design year traffic volume (not including the proposed Shops at Ridge Road development) through the intersection of Route 202 & Ridge Road during the weekday PM peak hour is **4,960 vehicles**.

2017 Traffic Counts and Updated Projections

Chadds Ford Township authorized traffic counts that were recently completed at nine (9) area intersections, including the intersection of Route 202 & Ridge Road. The Route 202 & Ridge counts were completed on April 22, 2017 and April 27, 2017. In order to compare the recently counted volume with previous study projections, the weekday PM peak hour volumes were increased to the 2024 design year. Similar to the McMahon study, the volumes were increased based the PennDOT growth factor and additional volume from other area planned developments.

The current PennDOT Bureau of Planning and Research growth rate for similar roadways in Delaware County is 0.41%. This rate was applied to the 2017 count volumes, compounded annually over seven (7) years to the 2024 design year. In addition to the growth rate, volumes from other area planned developments were applied. The selected developments differ from the developments utilized in the McMahon study, as additional developments are currently planned, the Brandywine Mills site was operational at the time of the 2017 counts, and the Vineyard Commons development is no longer proposed. The following area developments were included in the updated projections:

- Shops at Spring Lake – 164,240 square foot retail development
- Route 202 Assisted Living Facility – 90 Bed Facility
- Royal Farms – 4,166 square foot convenience market with 16 fueling positions located at Route 202 & Smithbridge Road
- Concordville Subaru – 30,320 square foot car dealership located on Route 202, just south of Route 1
- Concord Ventures – 195 unit residential development located on Route 202, south of Naamans Creek Road
- Metro Storage – 117,828 square foot self-storage facility located on Route 202, south of Naamans Creek Road
- Team Toyota - 45,493 Collision Center located on Baltimore Pike east of Route 202
- Future Henderson Development – including the Gakis site, Dickinson site, Henderson Plaza, and Lot 12. Projected traffic volumes for these sites are summarized in the Western Loop Road Transportation Impact Study prepared by Traffic Planning & Design, last revised April 10, 2017.

The resultant updated base 2024 design year traffic volume (not including the proposed Shops at Ridge Road development) through the intersection of Route 202 & Ridge Road during the weekday PM peak hour is **5,208 vehicles**.

Conclusions

The updated traffic counts and volume projections at the intersection of Route 202 & Ridge Road are approximately 5% higher (248 vehicles) during 2024 design year PM peak hour when compared with the projections from the 2014 McMahon study. The increase is due primarily to additional area planned developments that were not known at the time of the original study.

Further analyses would be required to determine if the higher base traffic volumes would impact the proposed recommended improvements. It should be noted that the volume difference is for base conditions only (future conditions without development traffic). The developer is only required to mitigate development traffic that is added onto the base conditions. It is our understanding that the proposed size of the development has not changed, and the same additional traffic as previously estimated for this site in the McMahon study would be added to the base volumes. While the development traffic will be the same, higher base volumes could impact roadway improvements, notably turn lane storage lengths and signal timings.

Based on the preceding, it is recommended that the Township consider completing additional analyses, or requesting that the developer complete updated analyses to confirm the validity of the proposed roadway improvements associated with the Shops at Ridge Road development. Further, should an updated traffic study be completed for this site to include additional access alternatives and an expanded study area, the base volumes should reflect traffic from the updated list of other area developments.

If you have any questions, please feel free to contact the undersigned.

Sincerely,

PENNONI



Michael W. Schneider, PE
Township Engineer

cc: Michael Maddren, Esq., Township Solicitor



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.85509, -75.541385

Imperial Traffic & Data Collection
www.imperialtdc.com
PO BOX 4673
Cherry Hill, New Jersey, United States 08034
609-706-6100

Count Name: Route 202 South
& Smithbridge Road
Site Code: ID 6
Start Date: 04/22/2017
Page No: 1

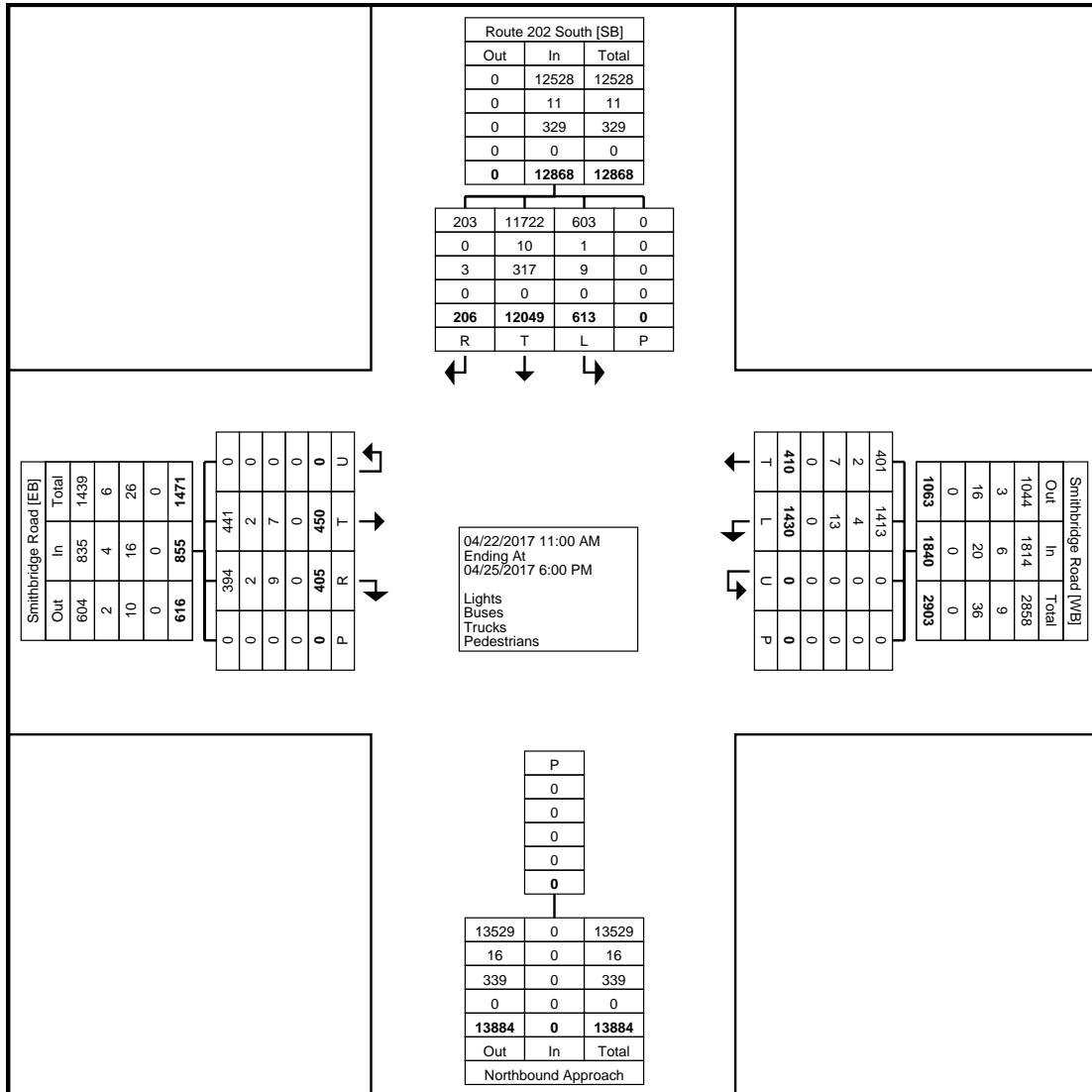
Turning Movement Data



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Page No: 2



Turning Movement Data Plot



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Count Name: Route 202 South
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Site Code: ID 6
Start Date: 04/22/2017
Page No: 3

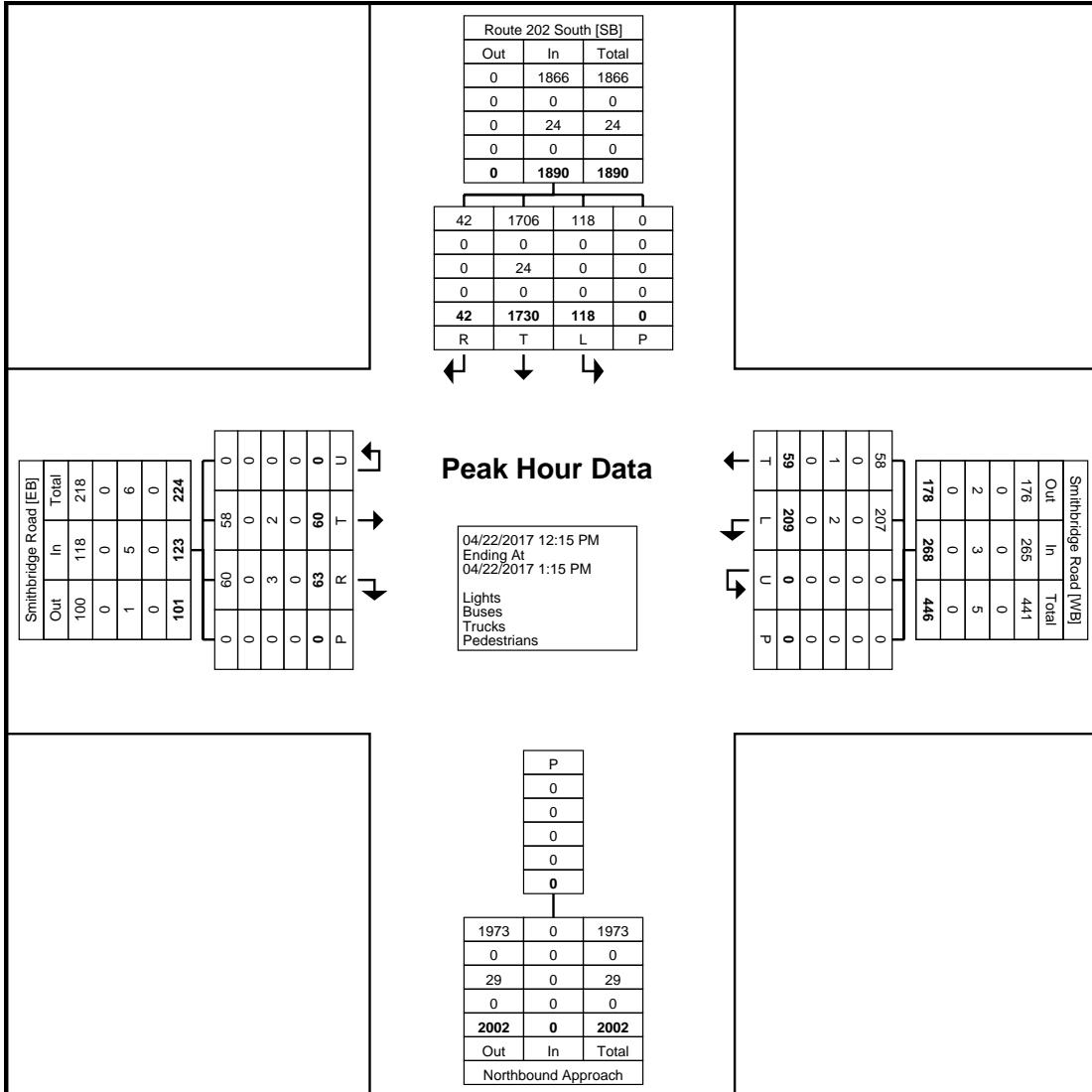
Turning Movement Peak Hour Data (12:15 PM)



Project: Chadds Ford: Route
202
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Location: 39.85509, -75.541385

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Page No: 4



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Page No: 5

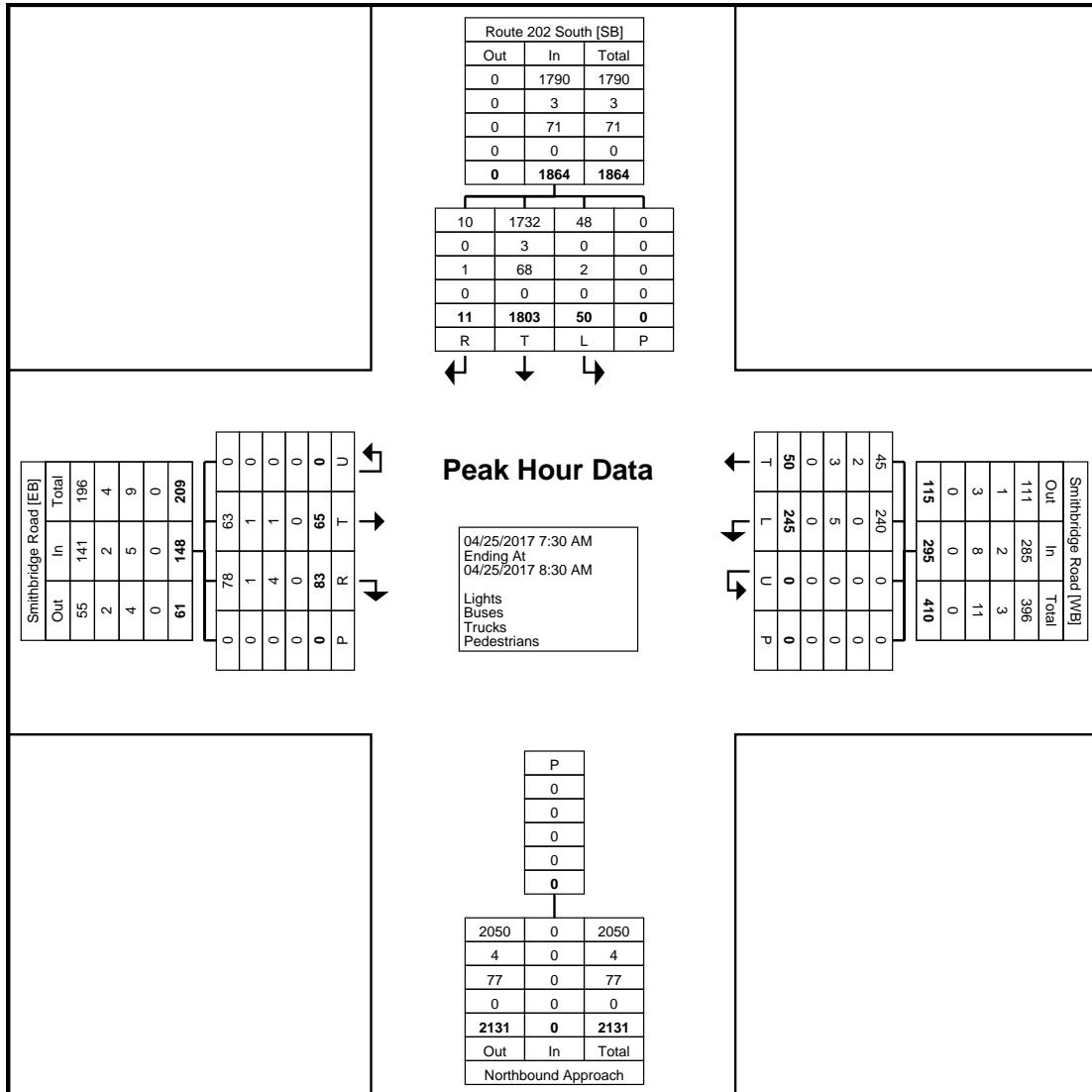
Turning Movement Peak Hour Data (7:30 AM)



Project: Chadds Ford: Route
202
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Location: 39.85509, -75.541385

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Page No: 6



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Page No: 7

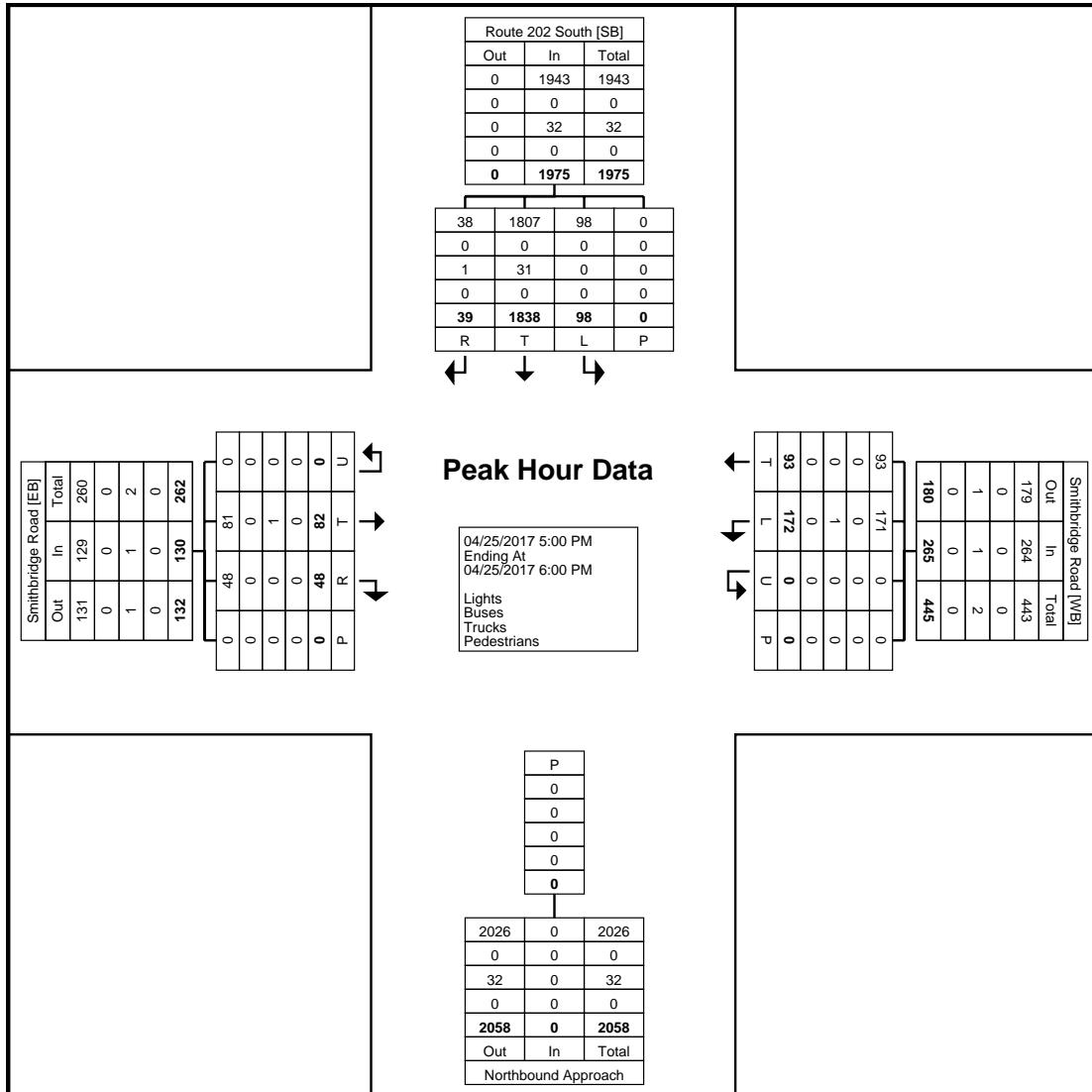
Turning Movement Peak Hour Data (5:00 PM)



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Site Code: ID 6
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Page No: 8



Turning Movement Peak Hour Data Plot (5:00 PM)



Project: Chadds Ford: Route
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Removed By: MAK
Location: 39.8554, -75.54037

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Count Name: Route 202 North &
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Site Code: ID 7
Start Date: 04/22/2017
Page No: 1

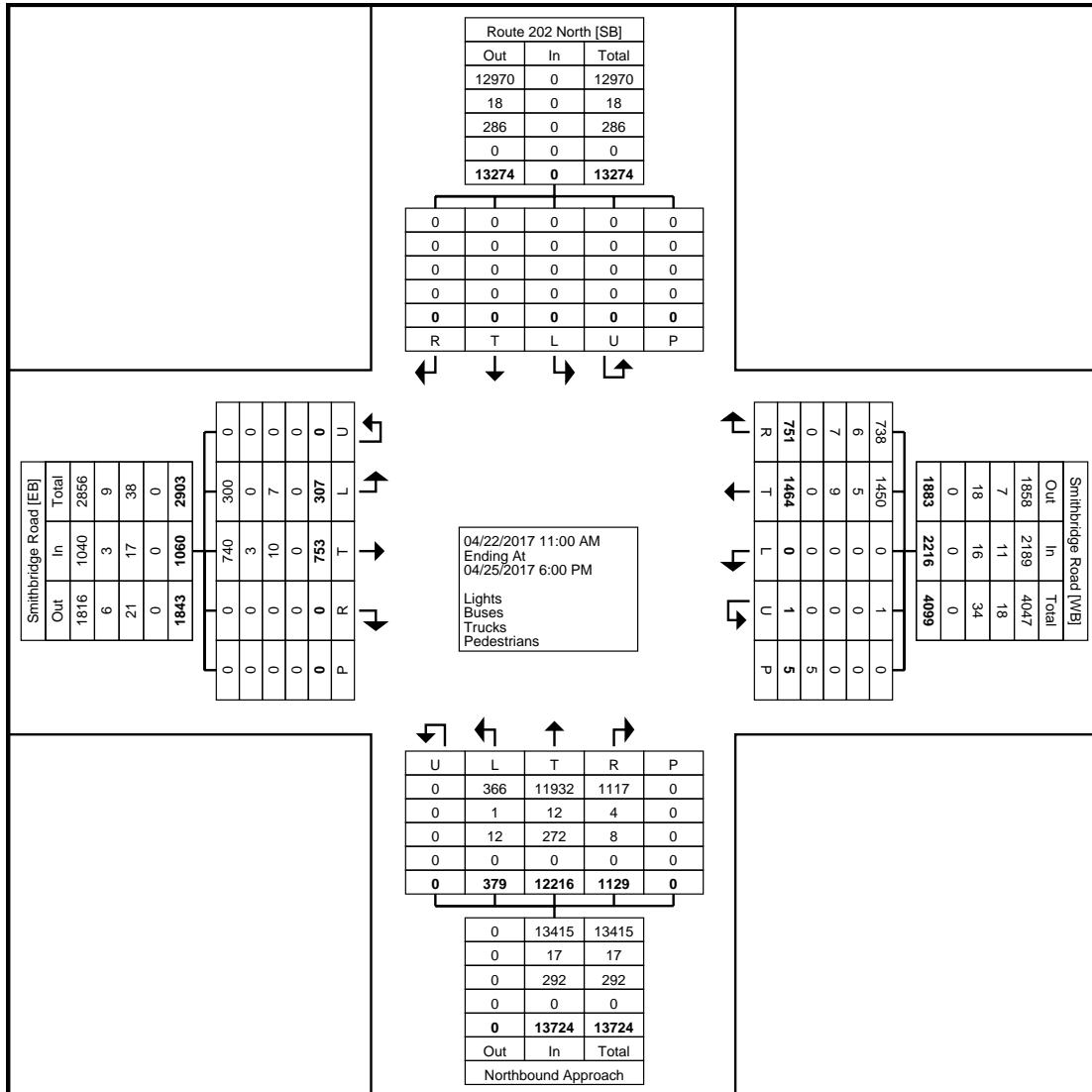
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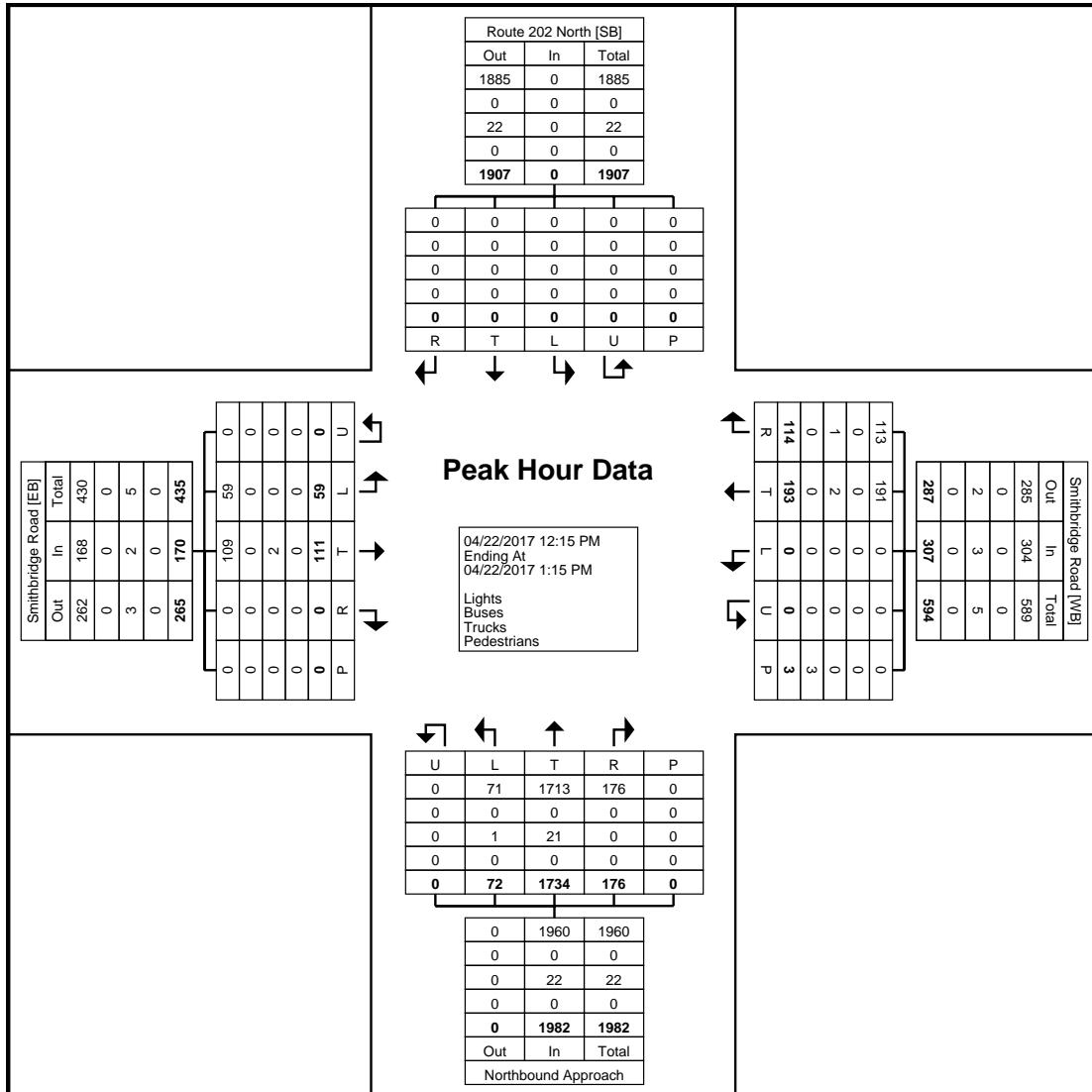
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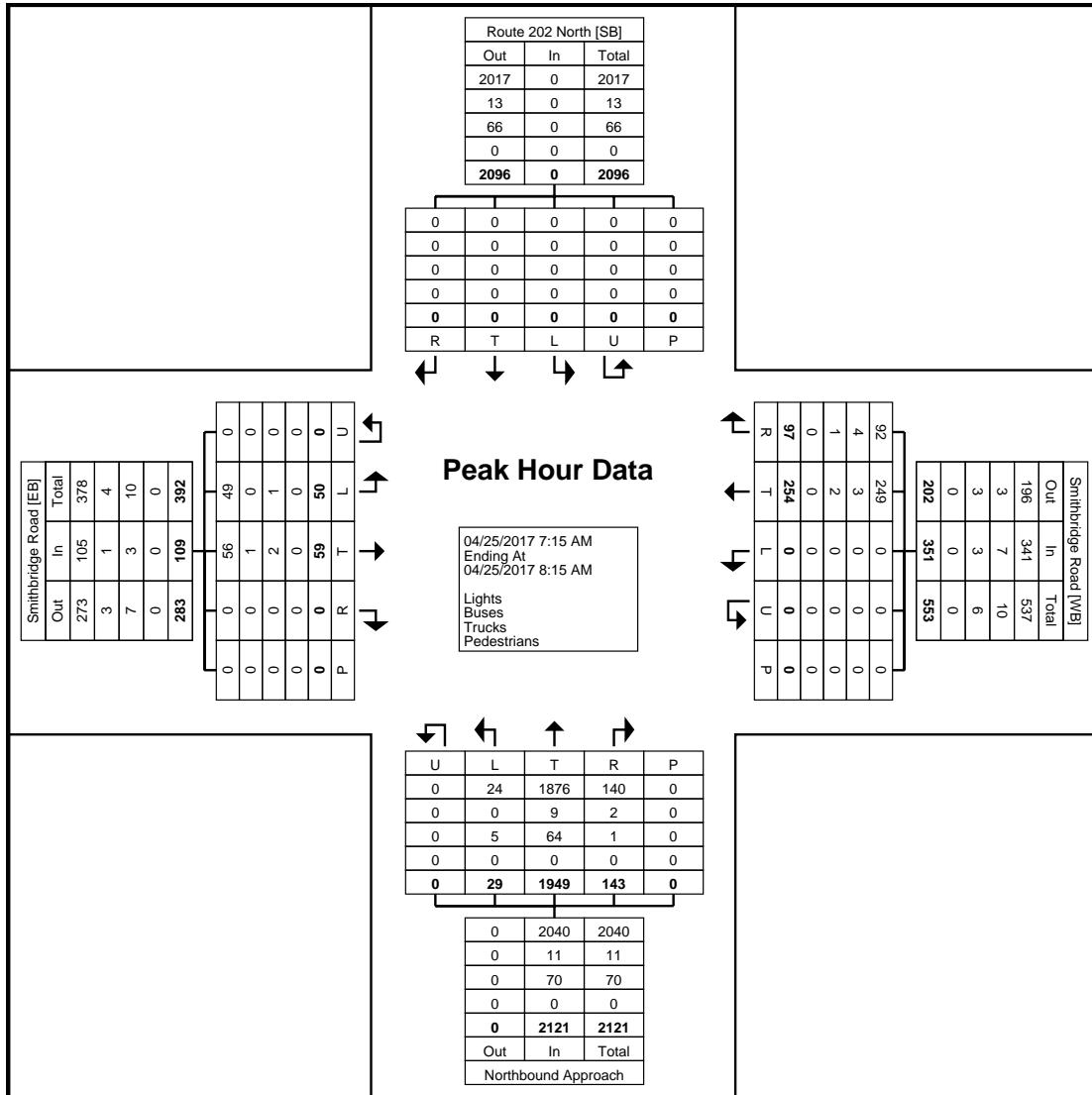
Count Name: Route 202 North &
Smithbridge Road
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Start Date: 04/22/2017
Page No: 5

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Site Code: ID 7
Start Date: 04/22/2017
Page No: 6



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Page No: 7

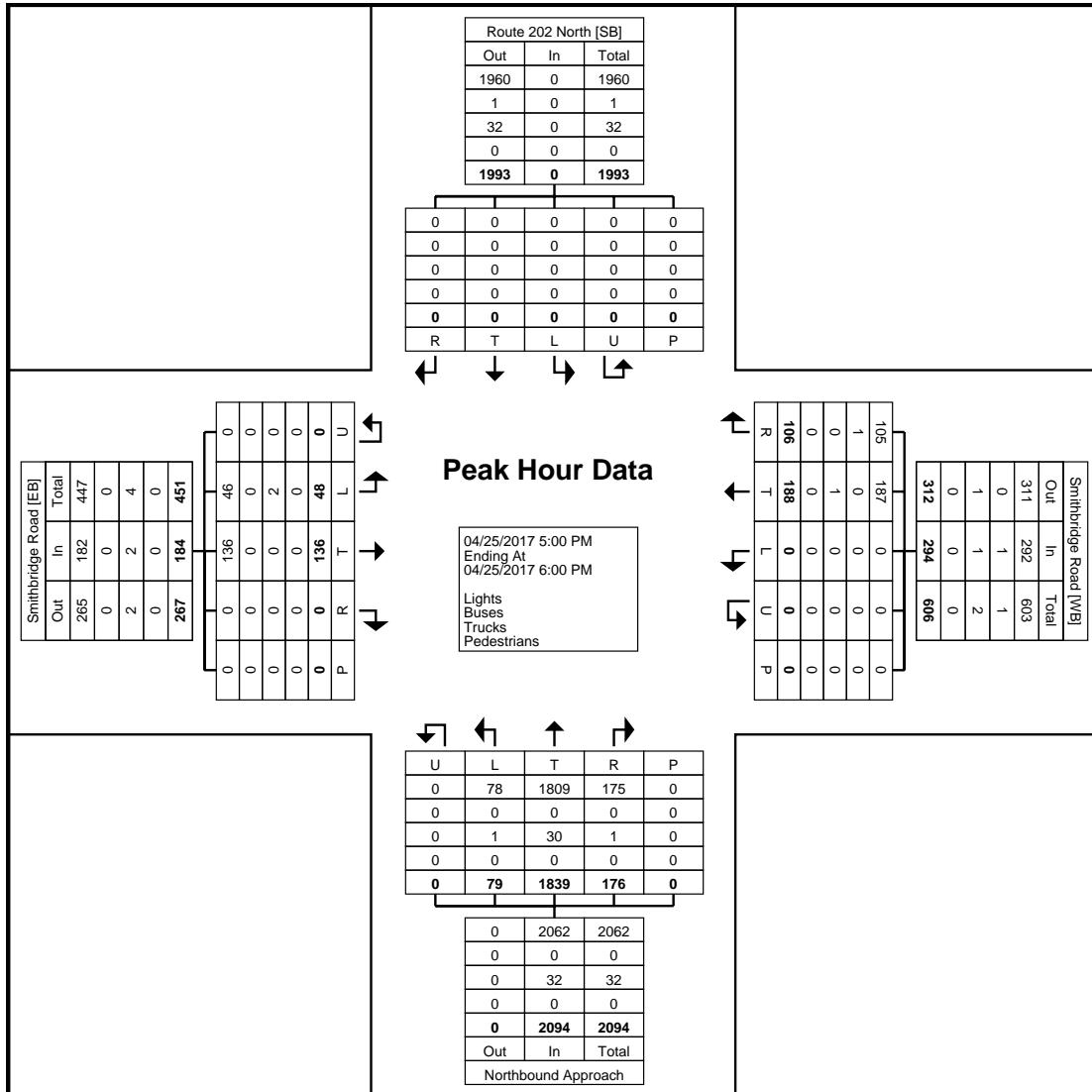
Turning Movement Peak Hour Data (5:00 PM)



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Location: 39.8554, -75.54037

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Count Name: Route 202 North &
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Site Code: ID 7
Start Date: 04/22/2017
Page No: 8



Turning Movement Peak Hour Data Plot (5:00 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.880952, -
75.546726

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Count Name: Route 202 &
Route 1
Site Code: 1
Start Date: 04/22/2017
Page No: 1

Turning Movement Data

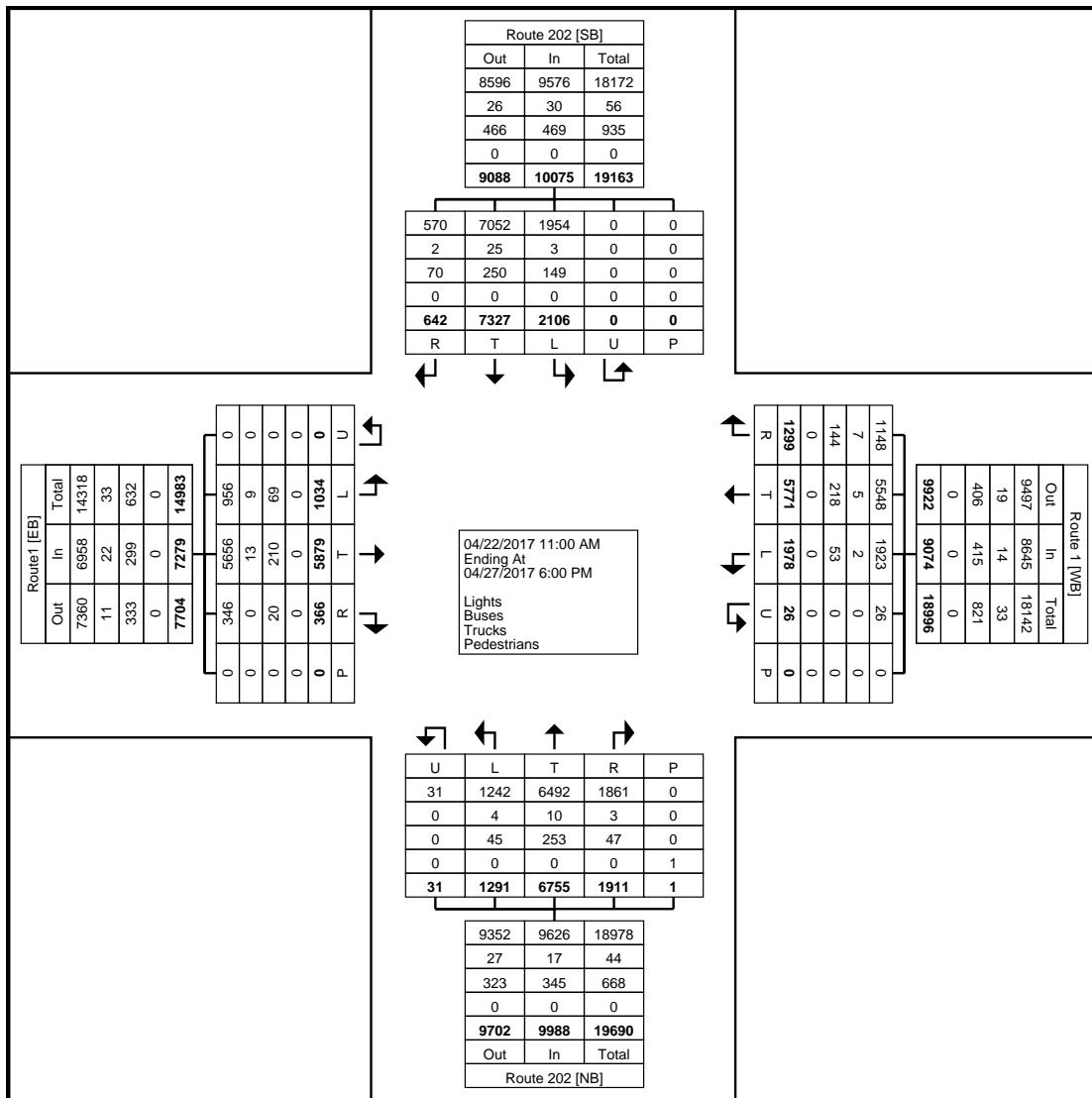
Start Time	Route 202 Southbound						Route 1 Westbound						Route 202 Northbound						Route 1 Eastbound						Int. Total
	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	
11:00 AM	29	211	99	0	0	339	57	171	73	2	0	303	78	222	52	1	0	353	20	185	38	0	0	243	1238
11:15 AM	44	212	103	0	0	359	41	190	86	3	0	320	67	190	48	2	0	307	15	180	37	0	0	232	1218
11:30 AM	9	226	94	0	0	329	57	209	76	1	0	343	97	178	48	0	0	323	16	222	42	0	0	280	1275
11:45 AM	6	249	128	0	0	383	46	171	76	1	0	294	91	186	48	2	0	327	8	175	36	0	0	219	1223
Hourly Total	88	898	424	0	0	1410	201	741	311	7	0	1260	333	776	196	5	0	1310	59	762	153	0	0	974	4954
12:00 PM	22	232	96	0	0	350	58	207	84	2	0	351	78	229	52	1	0	360	16	154	38	0	0	208	1269
12:15 PM	34	228	106	0	0	368	43	219	92	1	0	355	95	193	58	1	0	347	14	177	36	0	0	227	1297
12:30 PM	27	253	104	0	0	384	57	194	81	2	0	334	88	225	45	0	0	358	24	210	37	0	0	271	1347
12:45 PM	25	252	110	0	0	387	48	203	85	0	0	336	88	197	57	5	0	347	18	181	45	0	0	244	1314
Hourly Total	108	965	416	0	0	1489	206	823	342	5	0	1376	349	844	212	7	0	1412	72	722	156	0	0	950	5227
1:00 PM	19	190	88	0	0	297	32	165	84	0	0	281	93	249	52	5	0	399	20	182	41	0	0	243	1220
1:15 PM	19	201	74	0	0	294	45	211	95	0	0	351	102	207	59	1	0	369	8	199	38	0	0	245	1259
1:30 PM	30	246	85	0	0	361	65	228	77	0	0	370	104	184	48	2	0	338	26	220	48	0	0	294	1363
1:45 PM	29	274	119	0	0	422	64	216	90	0	0	370	90	214	54	0	0	358	22	178	42	0	0	242	1392
Hourly Total	97	911	366	0	0	1374	206	820	346	0	0	1372	389	854	213	8	0	1464	76	779	169	0	0	1024	5234
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7:00 AM	26	275	62	0	0	363	38	118	54	0	0	210	29	313	25	0	0	367	9	240	28	0	0	277	1217
7:15 AM	13	293	48	0	0	354	71	152	48	0	0	271	15	274	19	1	1	309	7	272	31	0	0	310	1244
7:30 AM	21	312	44	0	0	377	51	173	52	1	0	277	14	275	26	1	0	316	4	249	29	0	0	282	1252
7:45 AM	15	297	33	0	0	345	50	181	59	1	0	291	39	257	40	1	0	337	9	268	23	0	0	300	1273
Hourly Total	75	1177	187	0	0	1439	210	624	213	2	0	1049	97	1119	110	3	1	1329	29	1029	111	0	0	1169	4986
8:00 AM	29	334	51	0	0	414	54	183	44	0	0	281	51	244	37	0	0	332	6	259	25	0	0	290	1317
8:15 AM	12	278	44	0	0	334	43	211	60	0	0	314	60	258	38	0	0	356	12	227	24	0	0	263	1267
8:30 AM	23	294	48	0	0	365	38	193	54	0	0	285	51	249	45	1	0	346	10	274	33	0	0	317	1313
8:45 AM	26	285	52	0	0	363	55	161	54	2	0	272	52	275	41	0	0	368	11	216	34	0	0	261	1264
Hourly Total	90	1191	195	0	0	1476	190	748	212	2	0	1152	214	1026	161	1	0	1402	39	976	116	0	0	1131	5161
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4:00 PM	19	241	77	0	0	337	43	212	63	2	0	320	66	271	45	2	0	384	8	216	48	0	0	272	1313
4:15 PM	18	277	60	0	0	355	39	256	75	3	0	373	63	284	47	2	0	396	9	193	34	0	0	236	1360
4:30 PM	23	259	44	0	0	326	35	284	74	0	0	393	68	260	55	0	0	383	16	223	38	0	0	277	1379
4:45 PM	24	292	55	0	0	371	26	222	77	2	0	327	54	259	53	0	0	366	13	193	48	0	0	254	1318
Hourly Total	84	1069	236	0	0	1389	143	974	289	7	0	1413	251	1074	200	4	0	1529	46	825	168	0	0	1039	5370
5:00 PM	22	288	52	0	0	362	32	268	79	0	0	379	66	275	58	0	0	399	10	193	47	0	0	250	1390
5:15 PM	27	263	57	0	0	347	40	263	74	1	0	378	72	283	46	2	0	403	9	177	43	0	0	229	1357
5:30 PM	26	274	88	0	0	388	38	277	57	1	0	373	81	254	42	1	0	378	13	223	43	0	0	279	1418
5:45 PM	25	291	85	0	0	401	33	233	55	1	0	322	59	250	53	0	0	362	13	193	28	0	0	234	1319
Hourly Total	100	1116	282	0	0	1498	143	1041	265	3	0	1452	278	1062	199	3	0	1542	45	786	161	0	0	992	5484
Grand Total	642	7327	2106	0	0	10075	1299	5771	1978	26	0	9074	1911	6755	1291	31	1	9988	366	5879	1034	0	0	7279	36416
Approach %	6.4	72.7	20.9	0.0	-	-	14.3	63.6	21.8	0.3	-	-	19.1	67.6	12.9	0.3	-	-	5.0	80.8	14.2	0.0	-	-	-
Total %	1.8	20.1	5.8	0.0	-	27.7	3.6	15.8	5.4	0.1	-	24.9	5.2	18.5	3.5	0.1	-	27.4	1.0	16.1	2.8	0.0	-	20.0	-
Lights	570	7052	1954	0	-	9576	1148	5548	1923	26	-	8645	1861	6492	1242	31	-	9626	346	5656	956	0	-	6958	34805
% Lights	88.8	96.2	92.8	-	-	95.0	88.4	96.1	97.2	100.0	-	95.3	97.4	96.1	96.2	100.0	-	96.4	94.5	96.2	92.5	-	95.6	95.6	
Buses	2	25	3	0	-	30	7	5	2	0	-	14	3	10	4	0	-	17	0	13	9	0	-	22	83
% Buses	0.3	0.3	0.1	-	-	0.3	0.5	0.1	0.1	0.0	-	0.2	0.2	0.1	0.3	0.0	-	0.2	0.0	0.2	0.9	-	0.3	0.2	
Trucks	70	250	149	0	-	469	144	218	53	0	-	415	47	253	45	0	-	345	20	210	69	0	-	299	1528
% Trucks	10.9	3.4	7.1	-	-	4.7	11.1	3.8	2.7	0.0	-	4.6	2.5	3.7	3.5	0.0	-	3.5	5.5	3.6	6.7	-	4.1	4.2	
Pedestrians	-	-	-	-	-	0	-																		



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Count Name: Route 202 &
Route 1
Site Code: 1
Start Date: 04/22/2017
Page No: 2





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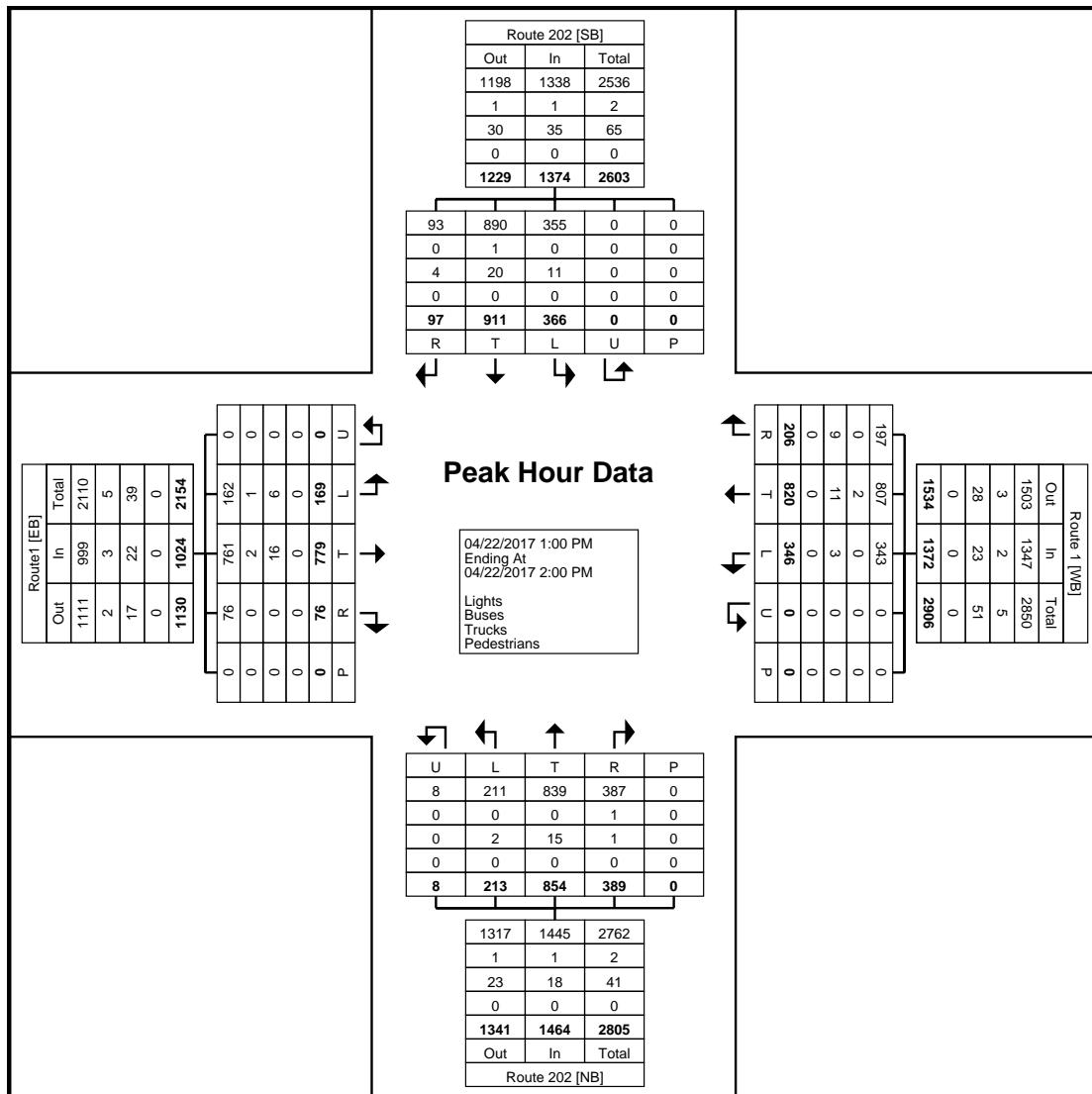
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Start Date: 04/22/2017
Page No: 5

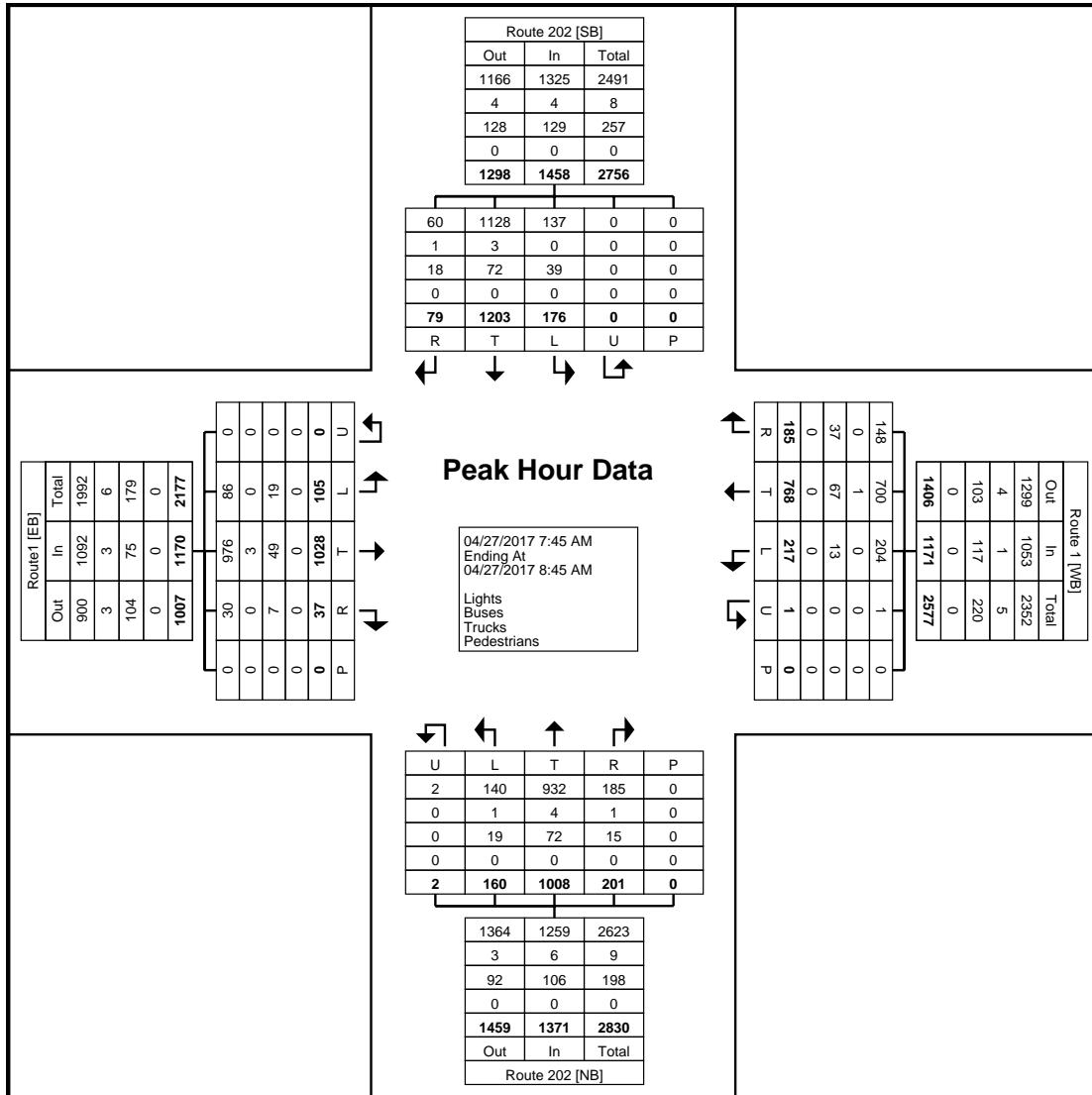
Turning Movement Peak Hour Data (7:45 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.880952, -
75.546726

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Cherry Hill, New Jersey, United States 08034
609-706-6100

Count Name: Route 202 &
Route 1
Site Code: 1
Start Date: 04/22/2017
Page No: 6



Turning Movement Peak Hour Data Plot (7:45 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.880952, -
75.546726

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609-706-6100

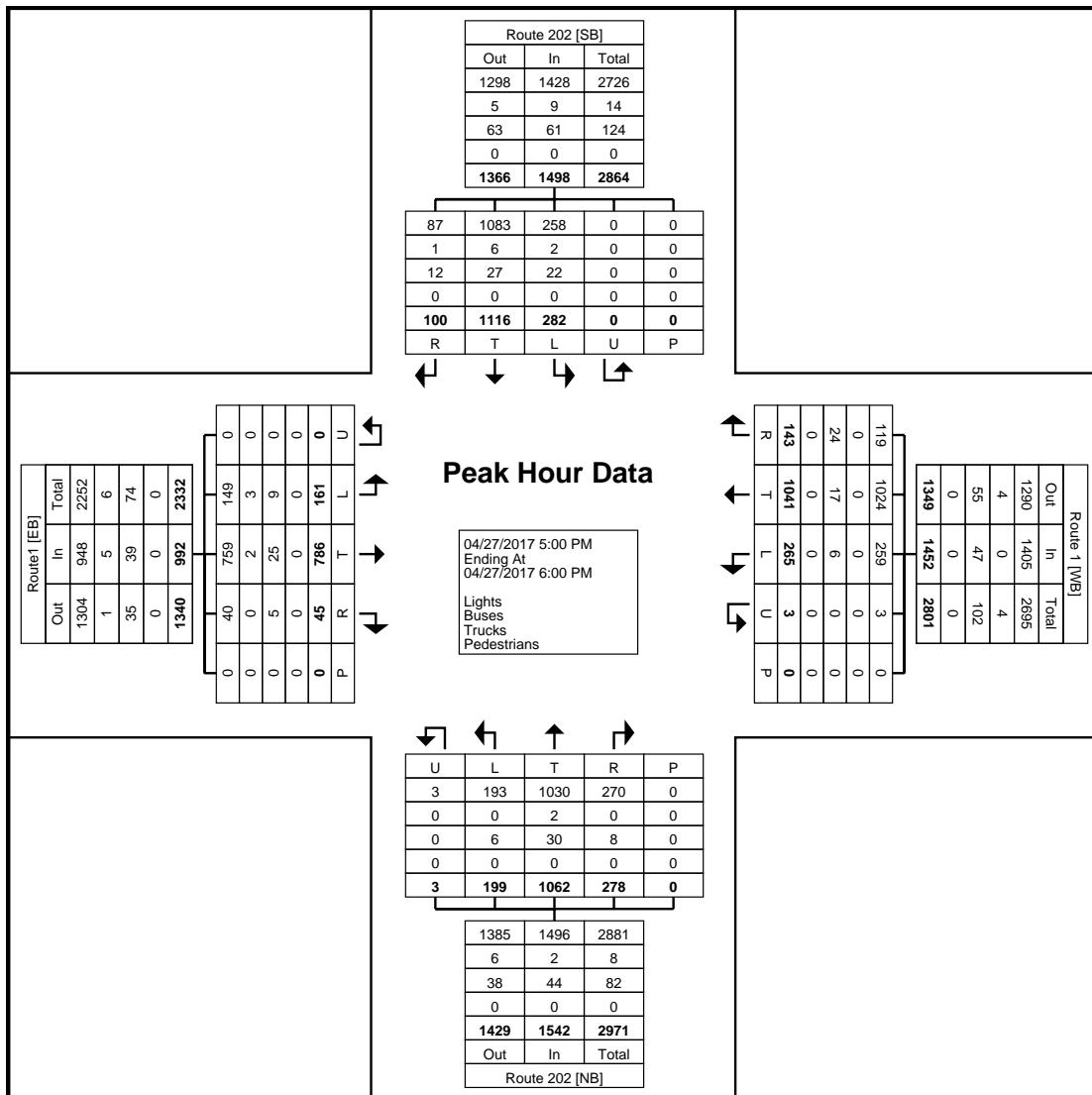
Count Name: Route 202 &
Route 1
Site Code: 1
Start Date: 04/22/2017
Page No: 7

Turning Movement Peak Hour Data (5:00 PM)

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.880952, -
75.546726

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Count Name: Route 202 &
Route 1
Site Code: 1
Start Date: 04/22/2017
Page No: 8



Turning Movement Peak Hour Data Plot (5:00 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.86611, -75.544264

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609-706-6100

Count Name: Route 202 &
Ridge Road
Site Code: 5
Start Date: 04/22/2017
Page No: 1

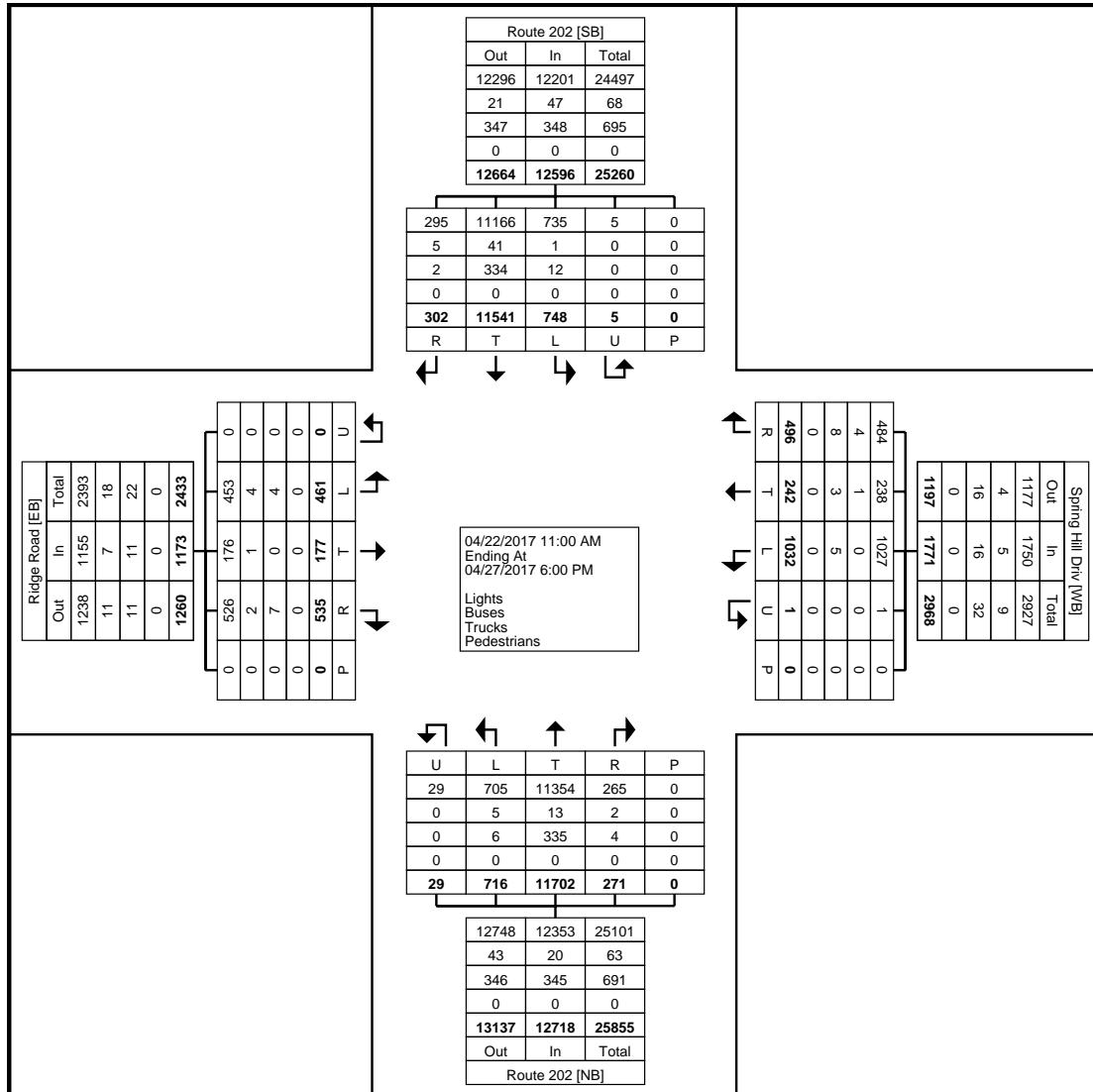
Turning Movement Data



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.86611, -75.544264

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Count Name: Route 202 &
Ridge Road
Site Code: 5
Start Date: 04/22/2017
Page No: 2



Turning Movement Data Plot



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.86611, -75.544264

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609-706-6100

Count Name: Route 202 &
Ridge Road
Site Code: 5
Start Date: 04/22/2017
Page No: 3

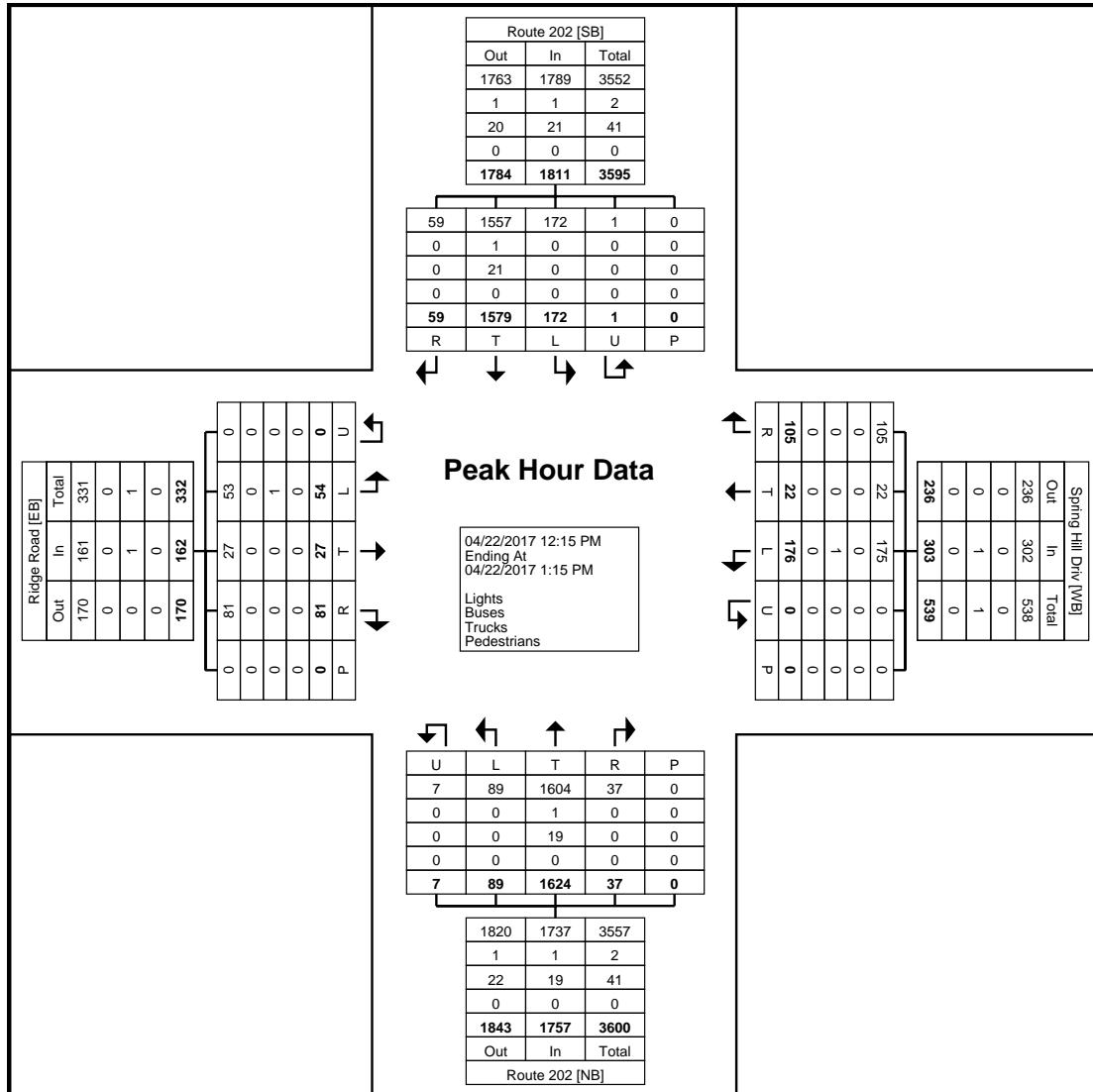
Turning Movement Peak Hour Data (12:15 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.86611, -75.544264

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Count Name: Route 202 &
Ridge Road
Site Code: 5
Start Date: 04/22/2017
Page No: 4



Turning Movement Peak Hour Data Plot (12:15 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.86611, -75.544264

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Count Name: Route 202 &
Ridge Road
Site Code: 5
Start Date: 04/22/2017
Page No: 5

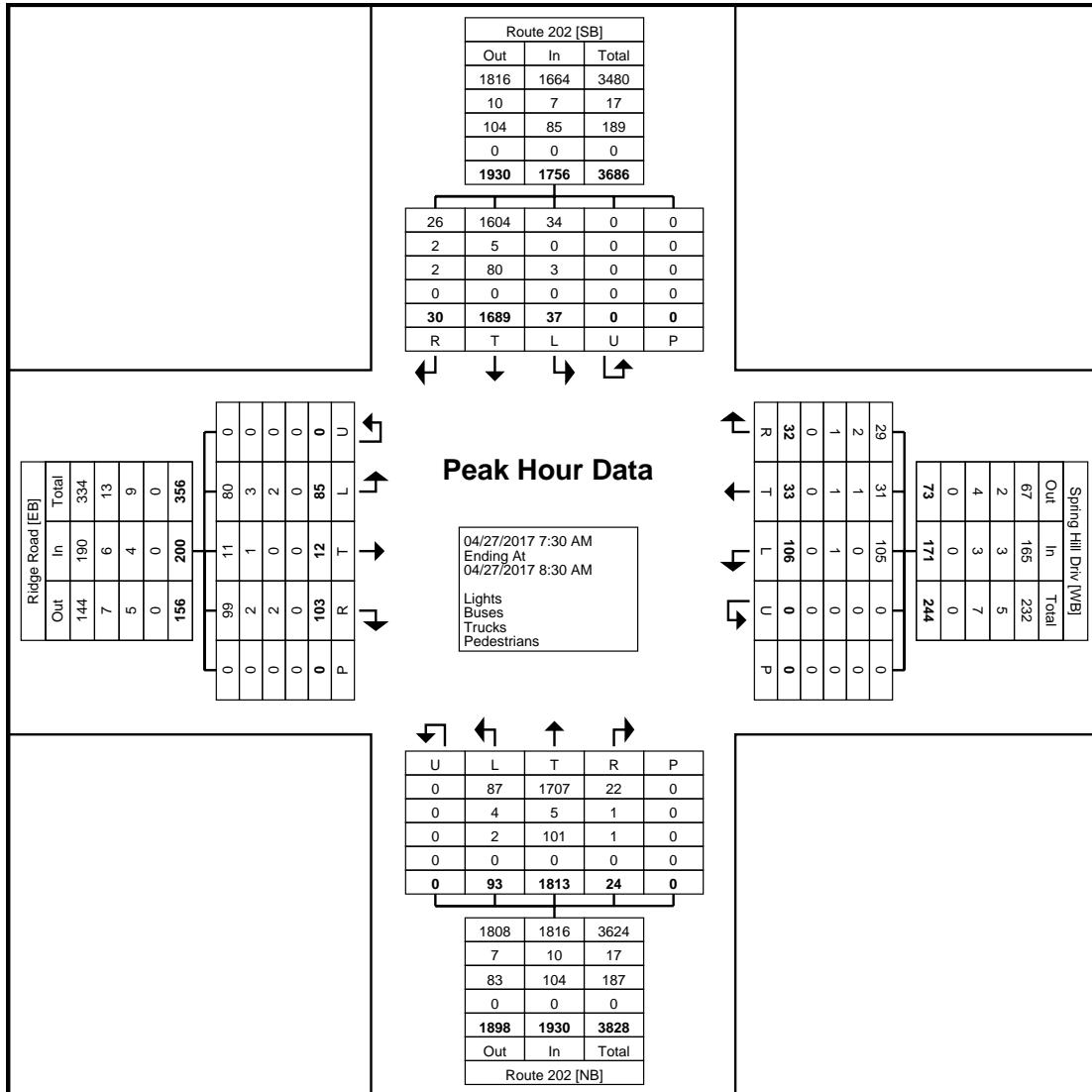
Turning Movement Peak Hour Data (7:30 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.86611, -75.544264

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Count Name: Route 202 &
Ridge Road
Site Code: 5
Start Date: 04/22/2017
Page No: 6



Turning Movement Peak Hour Data Plot (7:30 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.86611, -75.544264

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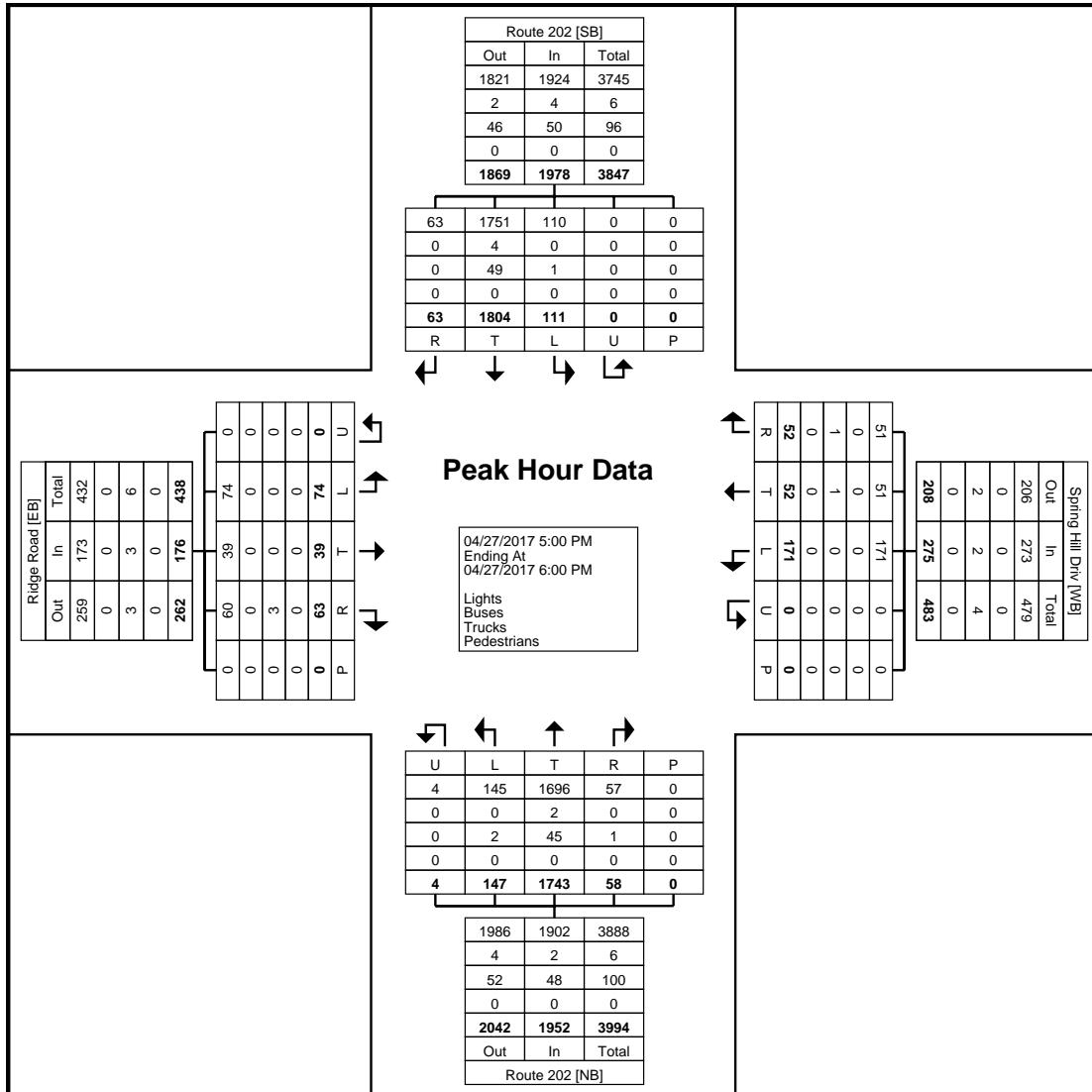
Count Name: Route 202 &
Ridge Road
Site Code: 5
Start Date: 04/22/2017
Page No: 7

Turning Movement Peak Hour Data (5:00 PM)

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.86611, -75.544264

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Count Name: Route 202 &
Ridge Road
Site Code: 5
Start Date: 04/22/2017
Page No: 8



Turning Movement Peak Hour Data Plot (5:00 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.8677, -75.544365

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Count Name: Route 202 &
Marshall Road
Site Code: 4
Start Date: 04/27/2017
Page No: 1

Turning Movement Data

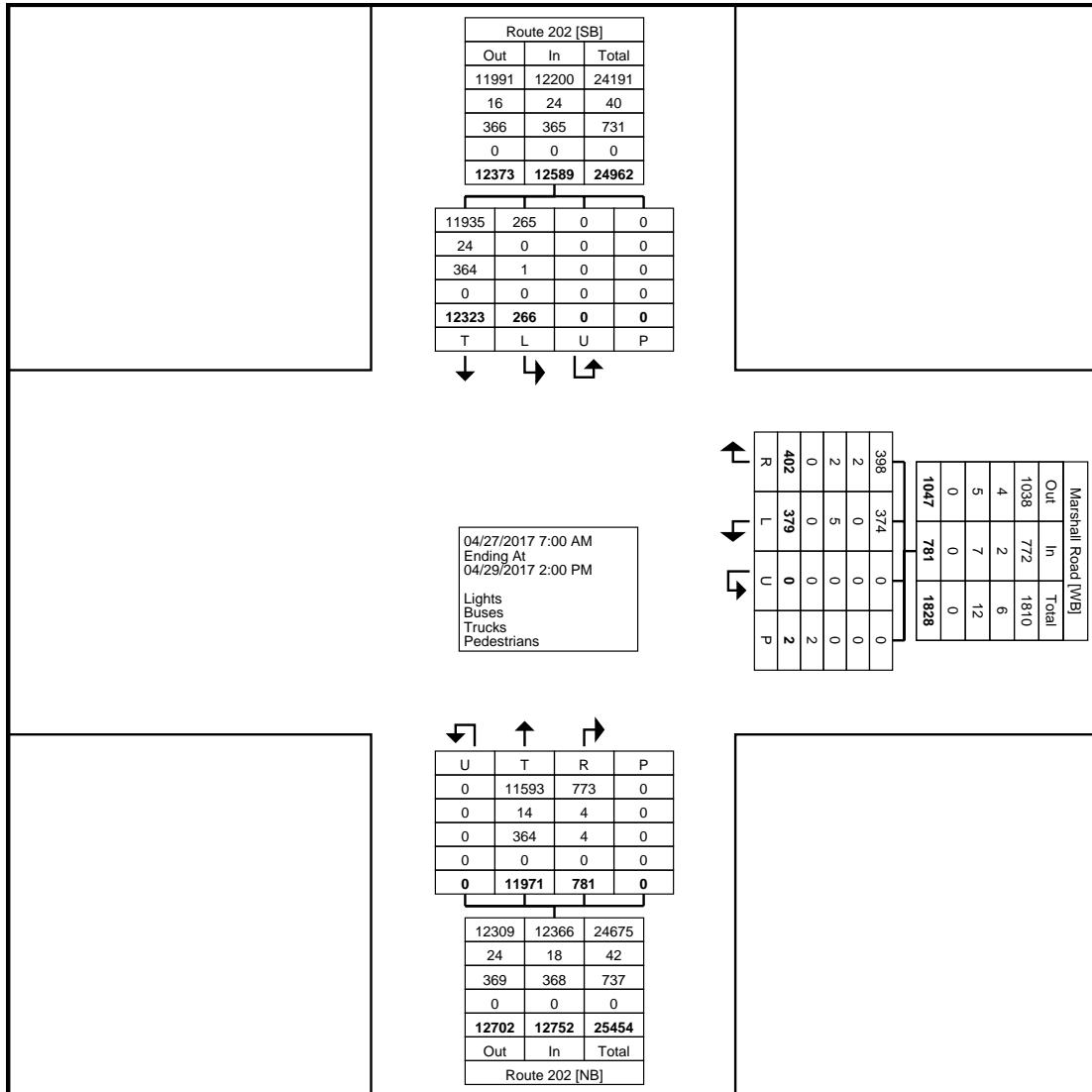
Start Time	Route 202 Southbound					Marshall Road Westbound					Route 202 Northbound					Int. Total
	Thru	Left	U-Turn	Peds	App. Total	Right	Left	U-Turn	Peds	App. Total	Right	Thru	U-Turn	Peds	App. Total	
7:00 AM	395	5	0	0	400	13	6	0	0	19	26	477	0	0	503	922
7:15 AM	418	3	0	0	421	13	16	0	0	29	31	480	0	0	511	961
7:30 AM	411	3	0	0	414	13	29	0	0	42	32	437	0	0	469	925
7:45 AM	453	9	0	0	462	14	13	0	0	27	34	473	0	0	507	996
Hourly Total	1677	20	0	0	1697	53	64	0	0	117	123	1867	0	0	1990	3804
8:00 AM	399	4	0	0	403	16	15	0	0	31	37	465	0	0	502	936
8:15 AM	436	2	0	0	438	20	24	0	0	44	27	463	0	0	490	972
8:30 AM	397	6	0	0	403	9	16	0	0	25	32	466	0	0	498	926
8:45 AM	380	3	0	0	383	8	14	0	0	22	19	409	0	0	428	833
Hourly Total	1612	15	0	0	1627	53	69	0	0	122	115	1803	0	0	1918	3667
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	462	16	0	0	478	24	13	0	0	37	40	389	0	0	429	944
4:15 PM	477	5	0	0	482	14	12	0	0	26	22	445	0	0	467	975
4:30 PM	505	8	0	0	513	9	7	0	0	16	22	454	0	0	476	1005
4:45 PM	497	15	0	0	512	16	16	0	0	32	37	391	0	0	428	972
Hourly Total	1941	44	0	0	1985	63	48	0	0	111	121	1679	0	0	1800	3896
5:00 PM	469	18	0	0	487	12	14	0	0	26	35	449	0	0	484	997
5:15 PM	484	14	0	0	498	20	10	0	0	30	30	437	0	0	467	995
5:30 PM	469	24	0	0	493	13	18	0	0	31	33	447	0	0	480	1004
5:45 PM	498	10	0	0	508	16	16	0	0	32	31	452	0	0	483	1023
Hourly Total	1920	66	0	0	1986	61	58	0	0	119	129	1785	0	0	1914	4019
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM	377	11	0	0	388	19	11	0	0	30	16	376	0	0	392	810
11:15 AM	404	7	0	0	411	16	15	0	0	31	25	361	0	0	386	828
11:30 AM	483	9	0	0	492	8	8	0	1	16	27	399	0	0	426	934
11:45 AM	404	8	0	0	412	13	8	0	0	21	23	429	0	0	452	885
Hourly Total	1668	35	0	0	1703	56	42	0	1	98	91	1565	0	0	1656	3457
12:00 PM	421	9	0	0	430	21	14	0	0	35	24	375	0	0	399	864
12:15 PM	499	15	0	0	514	13	9	0	1	22	32	380	0	0	412	948
12:30 PM	439	17	0	0	456	10	13	0	0	23	29	430	0	0	459	938
12:45 PM	451	7	0	0	458	16	20	0	0	36	15	444	0	0	459	953
Hourly Total	1810	48	0	0	1858	60	56	0	1	116	100	1629	0	0	1729	3703
1:00 PM	413	14	0	0	427	9	10	0	0	19	19	432	0	0	451	897
1:15 PM	407	6	0	0	413	19	14	0	0	33	34	402	0	0	436	882
1:30 PM	435	10	0	0	445	19	13	0	0	32	24	422	0	0	446	923
1:45 PM	440	8	0	0	448	9	5	0	0	14	25	387	0	0	412	874
Hourly Total	1695	38	0	0	1733	56	42	0	0	98	102	1643	0	0	1745	3576
Grand Total	12323	266	0	0	12589	402	379	0	2	781	781	11971	0	0	12752	26122
Approach %	97.9	2.1	0.0	-	-	51.5	48.5	0.0	-	-	6.1	93.9	0.0	-	-	-
Total %	47.2	1.0	0.0	-	48.2	1.5	1.5	0.0	-	3.0	3.0	45.8	0.0	-	48.8	-
Lights	11935	265	0	-	12200	398	374	0	-	772	773	11593	0	-	12366	25338
% Lights	96.9	99.6	-	-	96.9	99.0	98.7	-	-	98.8	99.0	96.8	-	-	97.0	97.0
Buses	24	0	0	-	24	2	0	0	-	2	4	14	0	-	18	44
% Buses	0.2	0.0	-	-	0.2	0.5	0.0	-	-	0.3	0.5	0.1	-	-	0.1	0.2
Trucks	364	1	0	-	365	2	5	0	-	7	4	364	0	-	368	740
% Trucks	3.0	0.4	-	-	2.9	0.5	1.3	-	-	0.9	0.5	3.0	-	-	2.9	2.8
Pedestrians	-	-	-	0	-	-	-	-	2	-	-	-	0	-	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	-



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.8677, -75.544365

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609-706-6100

Count Name: Route 202 &
Marshall Road
Site Code: 4
Start Date: 04/27/2017
Page No: 2



Turning Movement Data Plot



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.8677, -75.544365

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Count Name: Route 202 &
Marshall Road
Site Code: 4
Start Date: 04/27/2017
Page No: 3

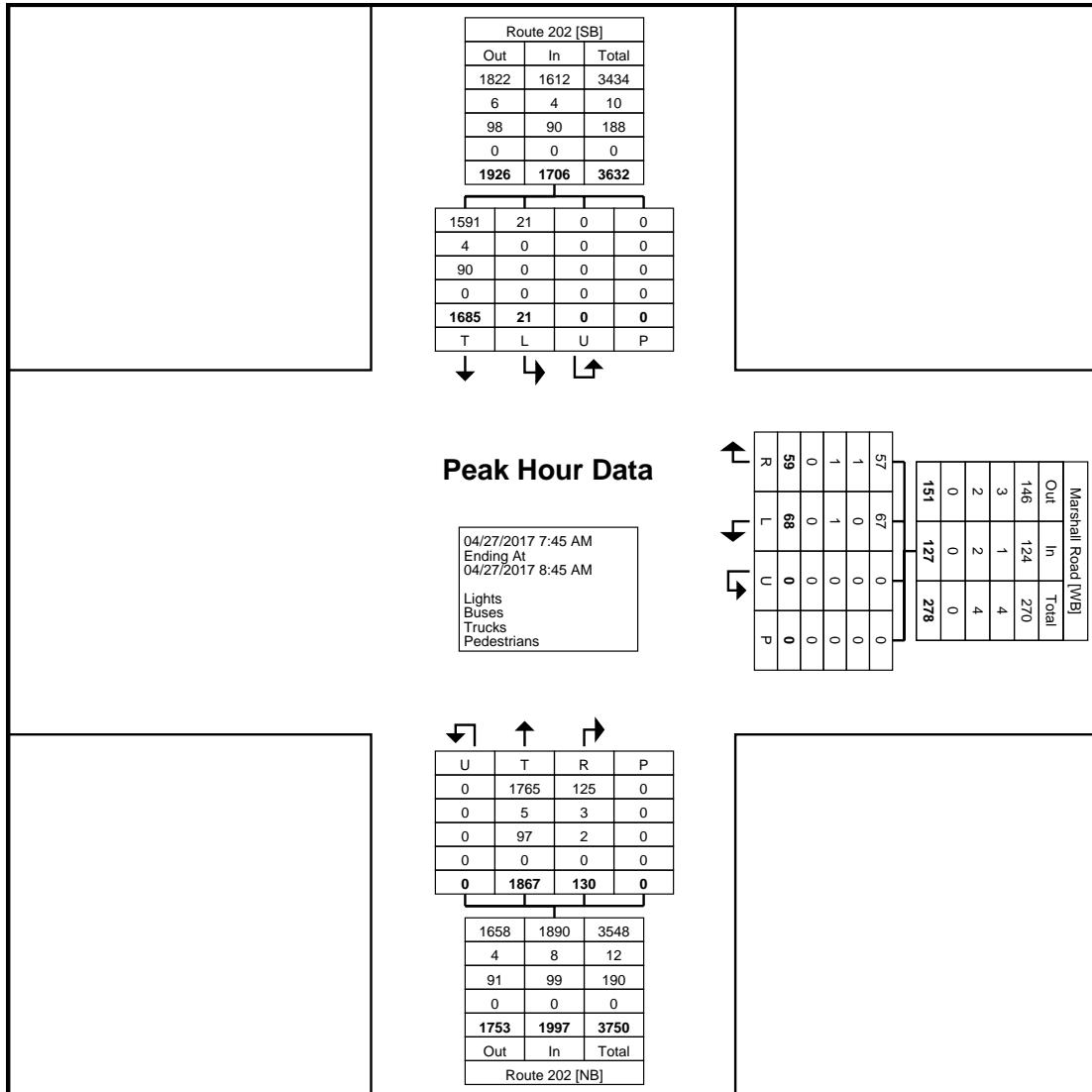
Turning Movement Peak Hour Data (7:45 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.8677, -75.544365

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Count Name: Route 202 &
Marshall Road
Site Code: 4
Start Date: 04/27/2017
Page No: 4



Turning Movement Peak Hour Data Plot (7:45 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.8677, -75.544365

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Count Name: Route 202 &
Marshall Road
Site Code: 4
Start Date: 04/27/2017
Page No: 5

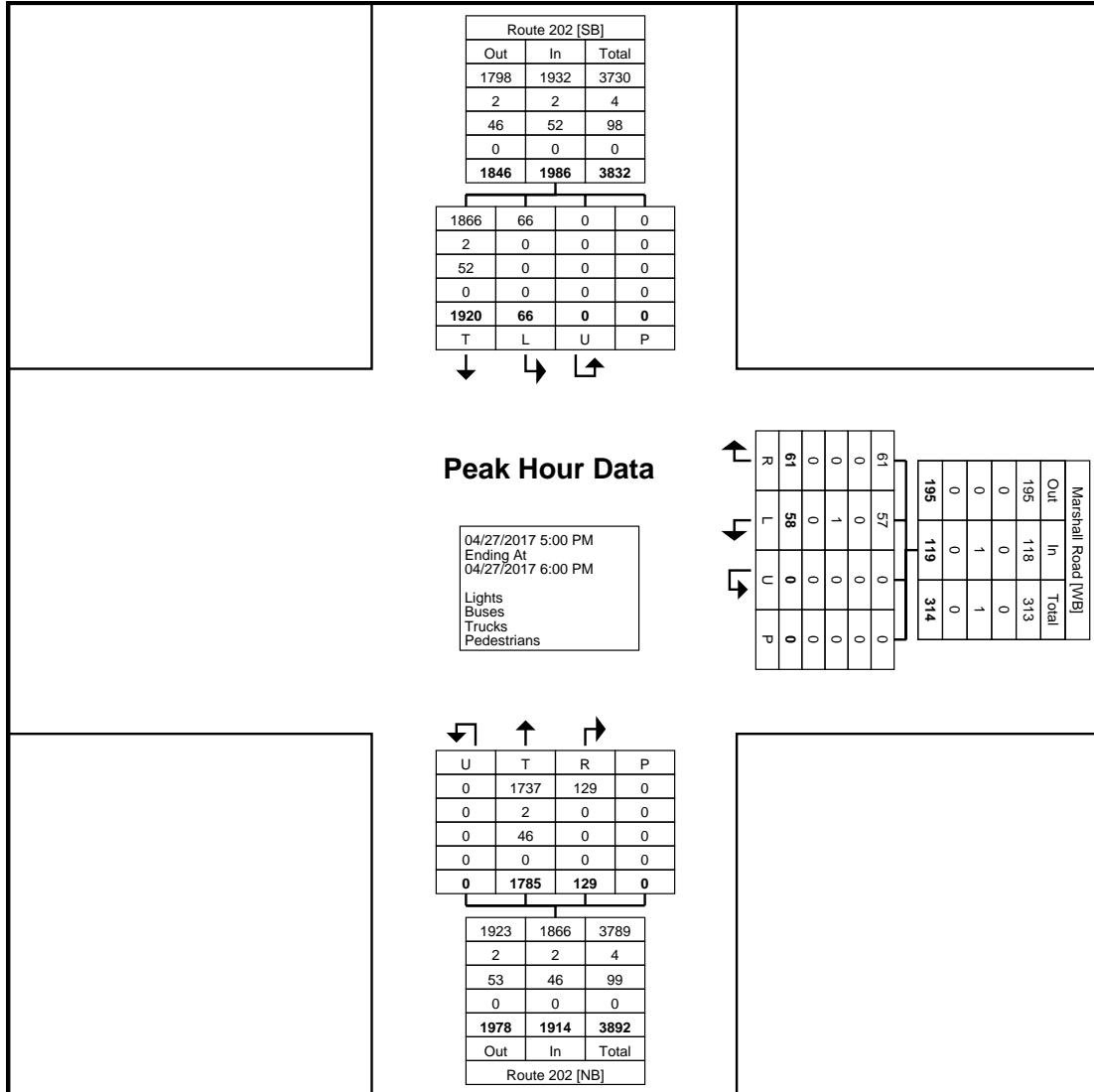
Turning Movement Peak Hour Data (5:00 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.8677, -75.544365

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Count Name: Route 202 &
Marshall Road
Site Code: 4
Start Date: 04/27/2017
Page No: 6



Turning Movement Peak Hour Data Plot (5:00 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.8677, -75.544365

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Count Name: Route 202 &
Marshall Road
Site Code: 4
Start Date: 04/27/2017
Page No: 7

Turning Movement Peak Hour Data (12:15 PM)

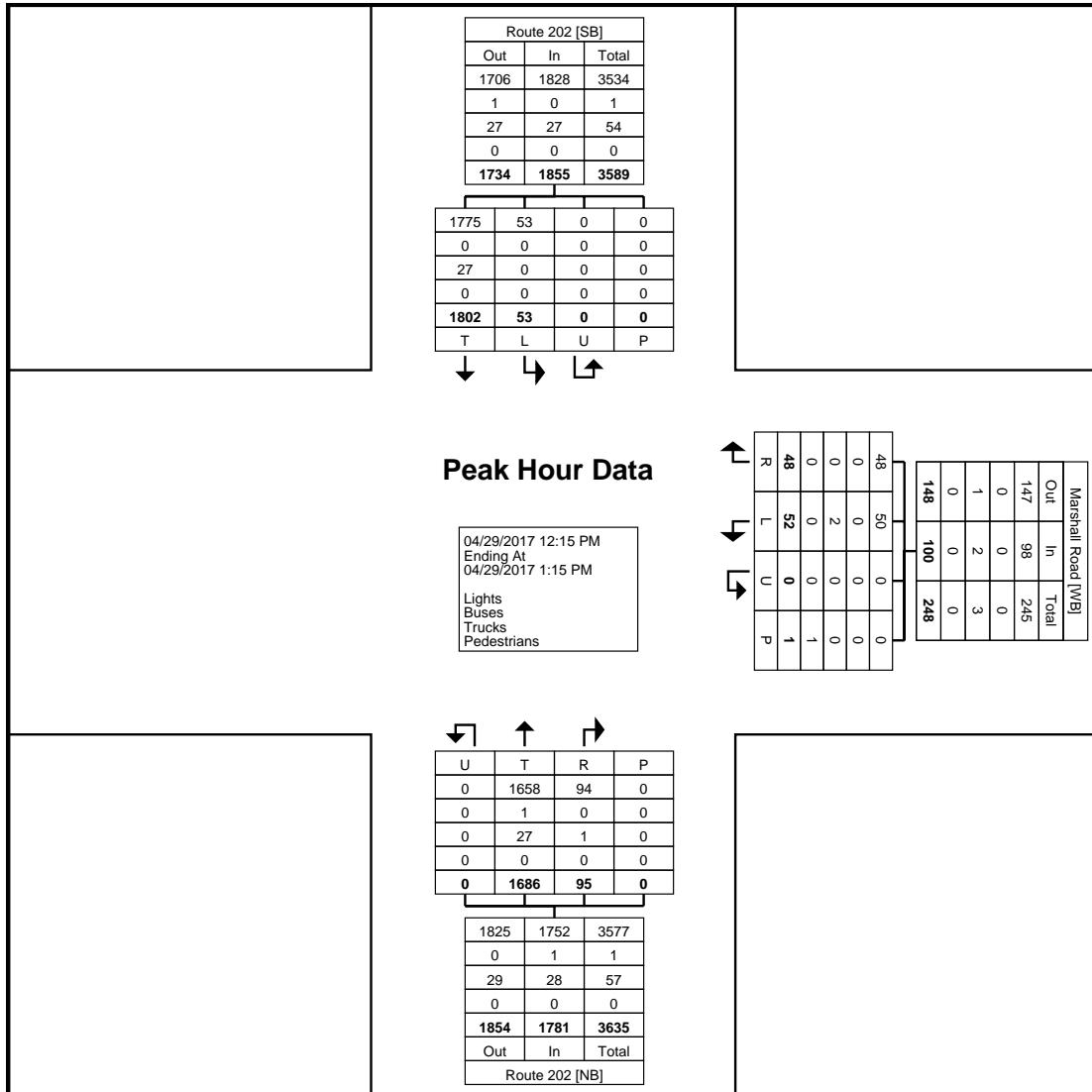
Start Time	Route 202 Southbound					Marshall Road Westbound					Route 202 Northbound					Int. Total
	Thru	Left	U-Turn	Peds	App. Total	Right	Left	U-Turn	Peds	App. Total	Right	Thru	U-Turn	Peds	App. Total	
12:15 PM	499	15	0	0	514	13	9	0	1	22	32	380	0	0	412	948
12:30 PM	439	17	0	0	456	10	13	0	0	23	29	430	0	0	459	938
12:45 PM	451	7	0	0	458	16	20	0	0	36	15	444	0	0	459	953
1:00 PM	413	14	0	0	427	9	10	0	0	19	19	432	0	0	451	897
Total	1802	53	0	0	1855	48	52	0	1	100	95	1686	0	0	1781	3736
Approach %	97.1	2.9	0.0	-	-	48.0	52.0	0.0	-	-	5.3	94.7	0.0	-	-	-
Total %	48.2	1.4	0.0	-	49.7	1.3	1.4	0.0	-	2.7	2.5	45.1	0.0	-	47.7	-
PHF	0.903	0.779	0.000	-	0.902	0.750	0.650	0.000	-	0.694	0.742	0.949	0.000	-	0.970	0.980
Lights	1775	53	0	-	1828	48	50	0	-	98	94	1658	0	-	1752	3678
% Lights	98.5	100.0	-	-	98.5	100.0	96.2	-	-	98.0	98.9	98.3	-	-	98.4	98.4
Buses	0	0	0	-	0	0	0	0	-	0	0	1	0	-	1	1
% Buses	0.0	0.0	-	-	0.0	0.0	0.0	-	-	0.0	0.0	0.1	-	-	0.1	0.0
Trucks	27	0	0	-	27	0	2	0	-	2	1	27	0	-	28	57
% Trucks	1.5	0.0	-	-	1.5	0.0	3.8	-	-	2.0	1.1	1.6	-	-	1.6	1.5
Pedestrians	-	-	-	0	-	-	-	-	1	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	-	-



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.8677, -75.544365

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Count Name: Route 202 &
Marshall Road
Site Code: 4
Start Date: 04/27/2017
Page No: 8



Turning Movement Peak Hour Data Plot (12:15 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.875878, -
75.544827

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Count Name: Route 202 &
Hillman Drive / Applied Bank
Boulevard
Site Code: 2
Start Date: 04/22/2017
Page No: 1

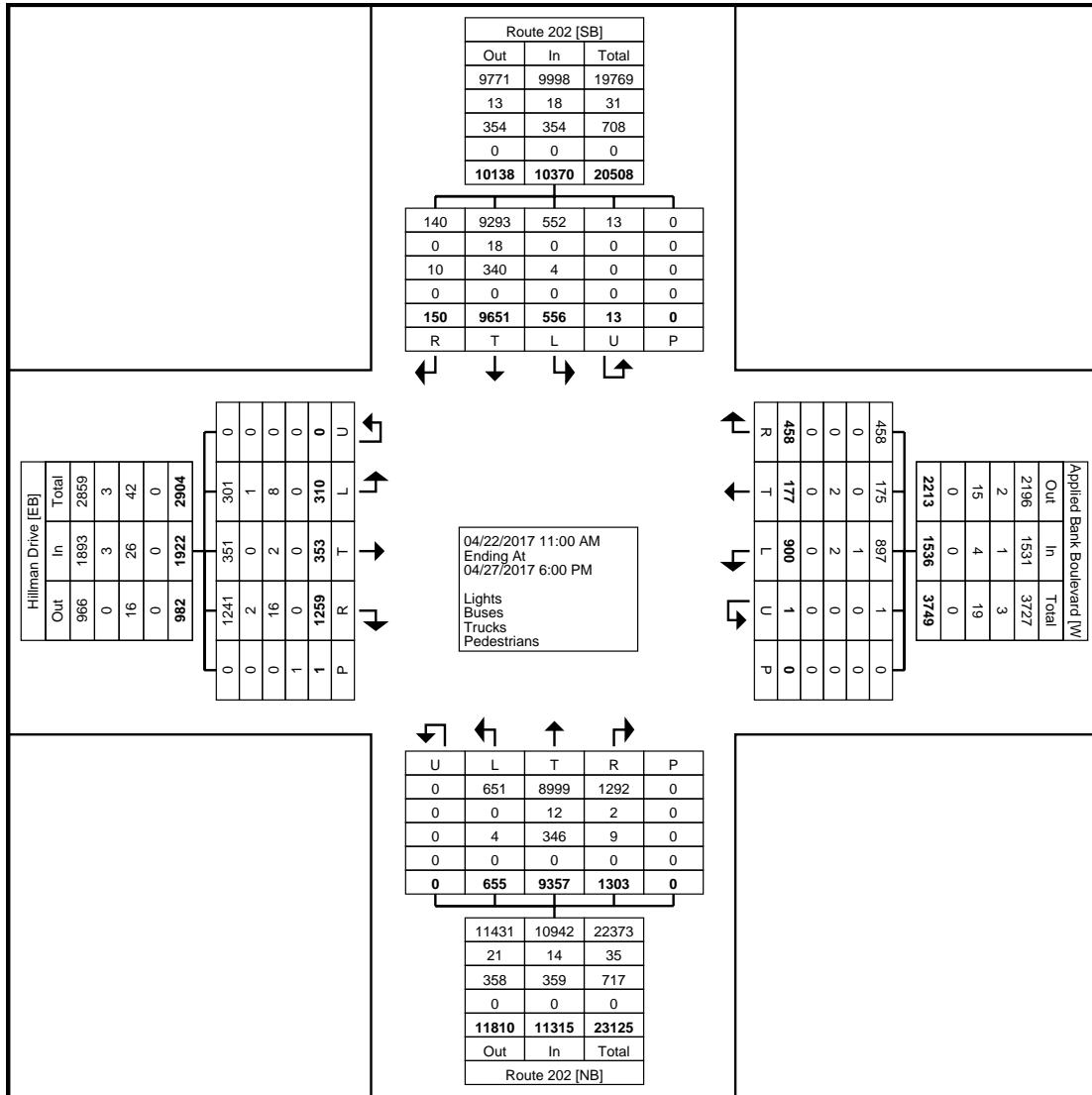
Turning Movement Data



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.875878, -
75.544827

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Count Name: Route 202 &
Hillman Drive / Applied Bank
Boulevard
Site Code: 2
Start Date: 04/22/2017
Page No: 2



Turning Movement Data Plot



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.875878, -
75.544827

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Count Name: Route 202 &
Hillman Drive / Applied Bank
Boulevard
Site Code: 2
Start Date: 04/22/2017
Page No: 3

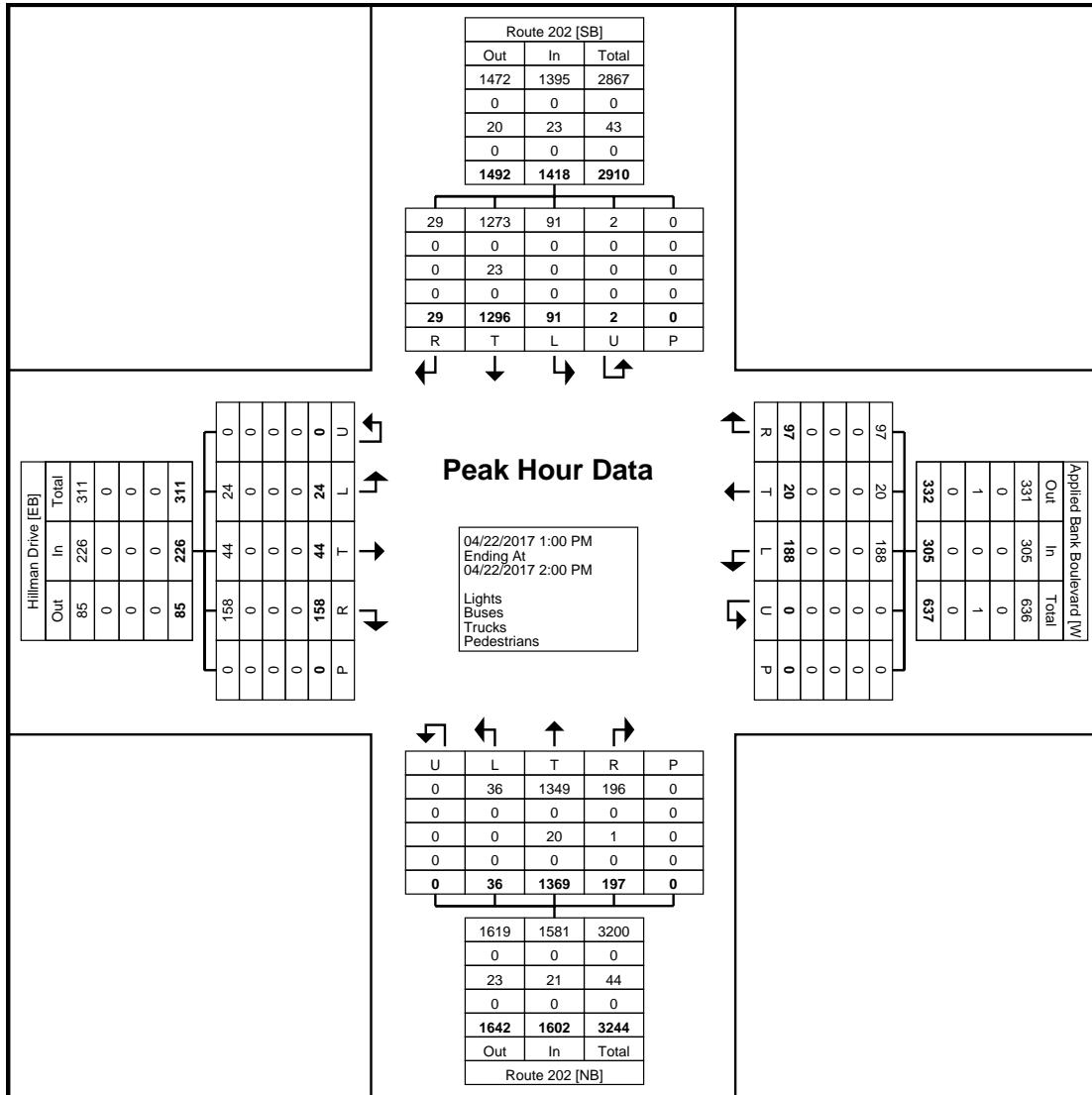
Turning Movement Peak Hour Data (1:00 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.875878, -
75.544827

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Count Name: Route 202 &
Hillman Drive / Applied Bank
Boulevard
Site Code: 2
Start Date: 04/22/2017
Page No: 4



Turning Movement Peak Hour Data Plot (1:00 PM)

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.875878, -
75.544827



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Count Name: Route 202 &
Hillman Drive / Applied Bank
Boulevard
Site Code: 2
Start Date: 04/22/2017
Page No: 5

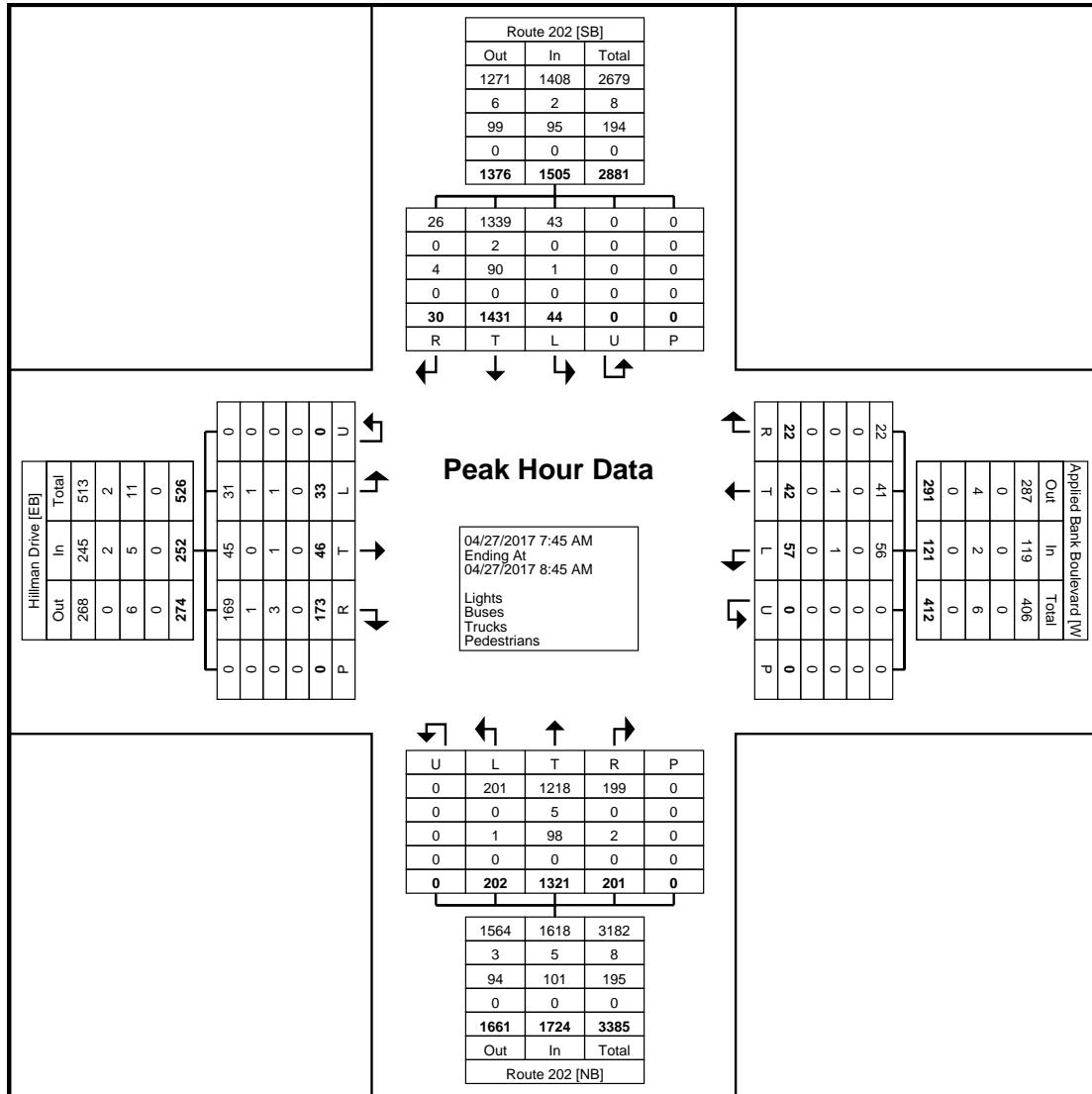
Turning Movement Peak Hour Data (7:45 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.875878, -
75.544827

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Count Name: Route 202 &
Hillman Drive / Applied Bank
Boulevard
Site Code: 2
Start Date: 04/22/2017
Page No: 6



Turning Movement Peak Hour Data Plot (7:45 AM)

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.875878, -
75.544827



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Count Name: Route 202 &
Hillman Drive / Applied Bank
Boulevard
Site Code: 2
Start Date: 04/22/2017
Page No: 7

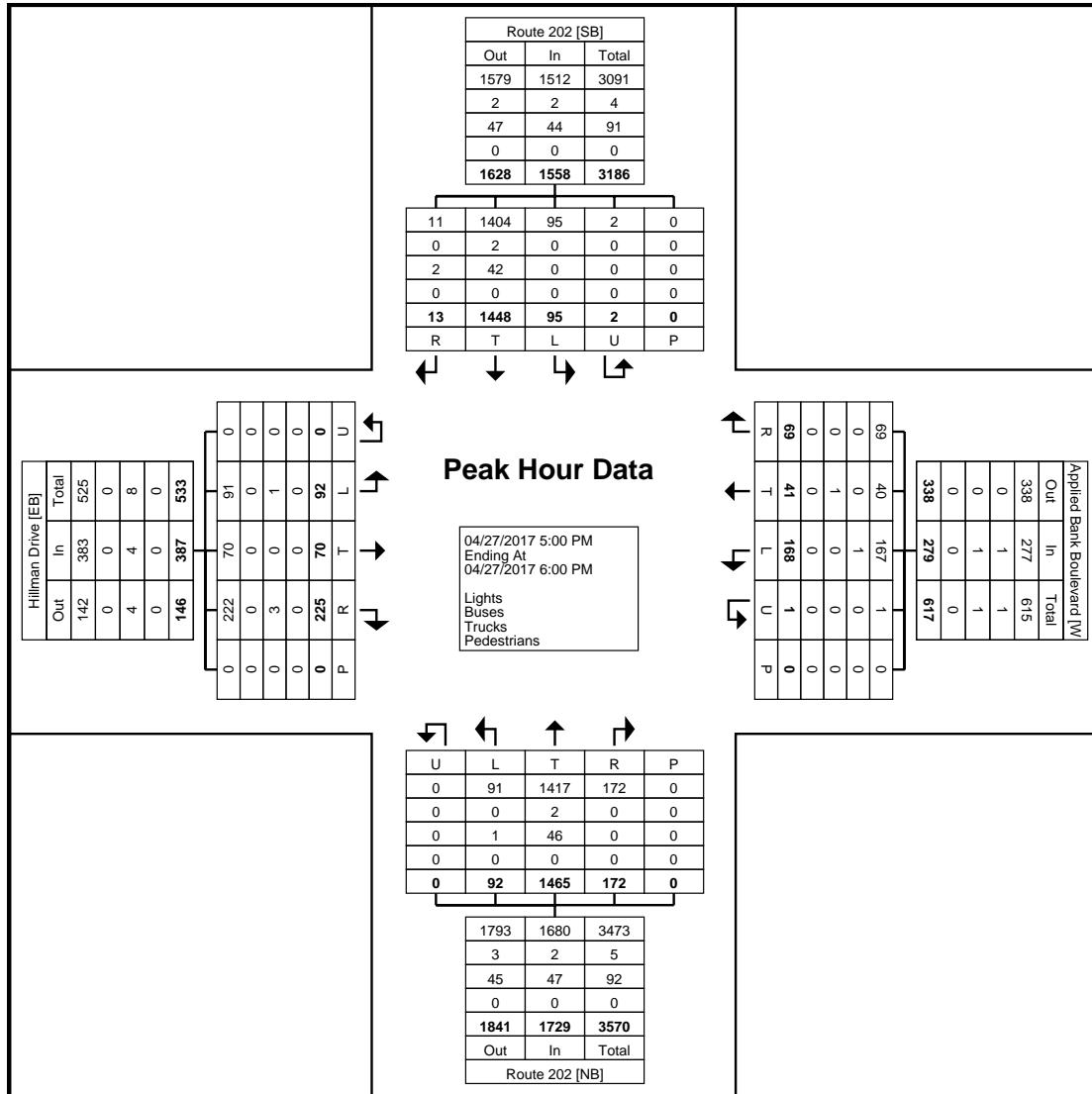
Turning Movement Peak Hour Data (5:00 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.875878, -
75.544827

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Count Name: Route 202 &
Hillman Drive / Applied Bank
Boulevard
Site Code: 2
Start Date: 04/22/2017
Page No: 8



Turning Movement Peak Hour Data Plot (5:00 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.874101, -
75.544727

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Count Name: Route 202 &
Corporate Center Way
Site Code: ID 3
Start Date: 04/22/2017
Page No: 1

Turning Movement Data

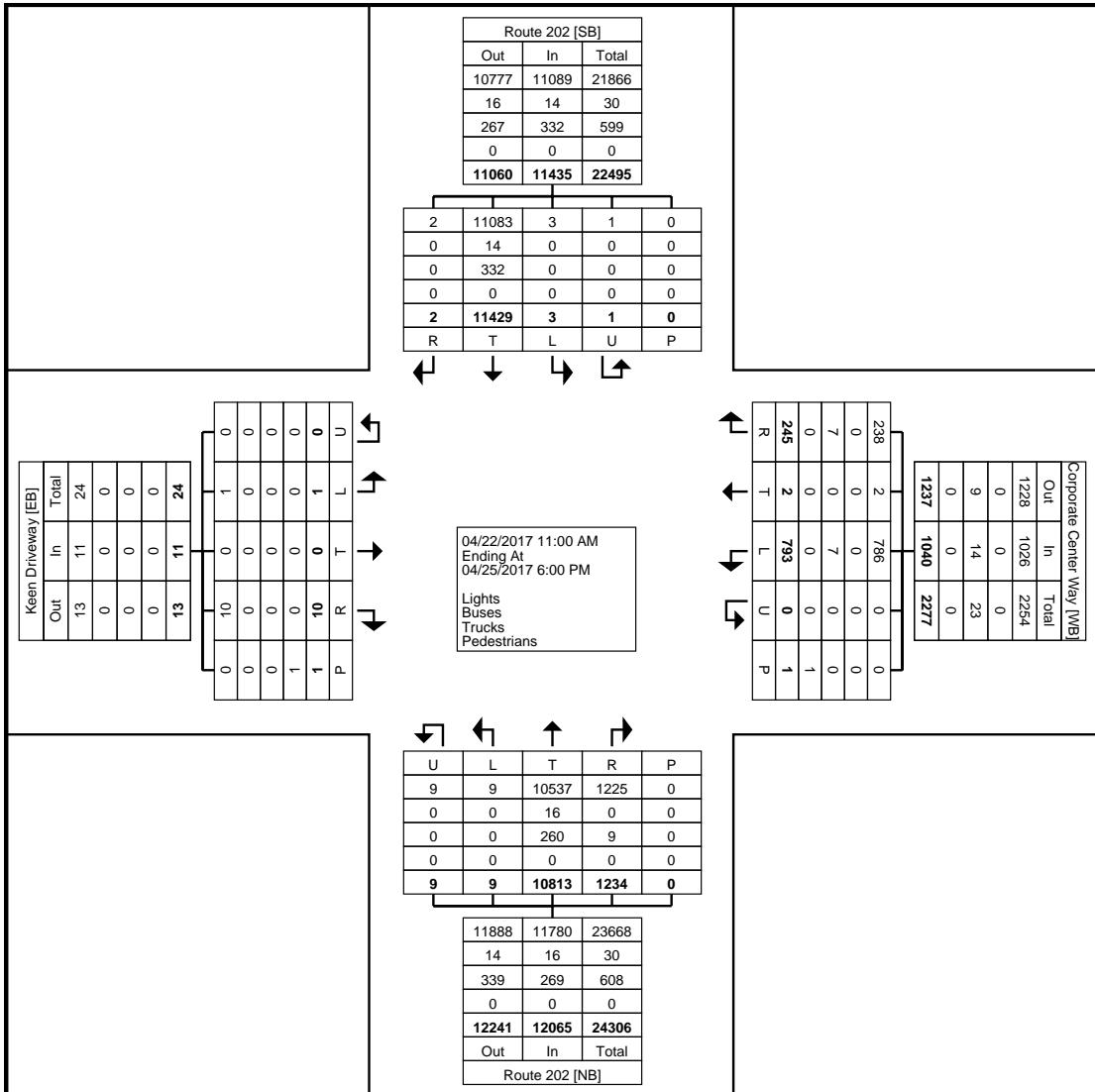
Start Time	Route 202 Southbound						Corporate Center Way Westbound						Route 202 Northbound						Keen Driveway Eastbound											
	Right Thru Left			U-Turn Peds App. Total			Right Thru Left			U-Turn Peds App. Total			Right Thru Left			U-Turn Peds App. Total			Right Thru Left			U-Turn Peds App. Total								
	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total
11:00 AM	0	356	0	0	0	356	8	0	37	0	0	45	52	350	2	0	0	404	2	0	0	0	0	0	2	807				
11:15 AM	0	389	0	1	0	390	17	0	16	0	1	33	51	334	0	0	0	385	0	0	0	0	0	0	0	808				
11:30 AM	0	383	0	0	0	383	9	0	37	0	0	46	53	373	0	0	0	426	0	0	0	0	0	0	0	855				
11:45 AM	1	422	0	0	0	423	8	0	17	0	0	25	47	405	0	0	0	452	0	0	0	0	0	0	0	900				
Hourly Total	1	1550	0	1	0	1552	42	0	107	0	1	149	203	1462	2	0	0	1667	2	0	0	0	0	0	2	3370				
12:00 PM	0	404	0	0	0	404	9	0	31	0	0	40	58	355	0	0	0	413	2	0	0	0	0	0	2	859				
12:15 PM	0	422	0	0	0	422	17	0	37	0	0	54	50	346	0	0	0	396	0	0	0	0	0	0	0	872				
12:30 PM	0	418	0	0	0	418	17	0	39	0	0	56	46	388	0	0	0	434	0	0	0	0	0	0	0	908				
12:45 PM	0	438	0	0	0	438	6	0	29	0	0	35	63	392	0	0	0	455	0	0	0	0	0	0	0	928				
Hourly Total	0	1682	0	0	0	1682	49	0	136	0	0	185	217	1481	0	0	0	1698	2	0	0	0	0	0	2	3567				
1:00 PM	0	385	1	0	0	386	18	0	36	0	0	54	60	396	0	1	0	457	0	0	0	0	0	0	0	897				
1:15 PM	0	377	0	0	0	377	23	0	37	0	0	60	54	353	1	0	0	408	1	0	0	0	0	0	1	846				
1:30 PM	0	443	1	0	0	444	11	0	32	0	0	43	59	379	0	0	0	438	0	0	0	0	0	0	0	925				
1:45 PM	0	425	0	0	0	425	16	0	20	0	0	36	50	420	0	1	0	471	0	0	0	0	0	0	0	932				
Hourly Total	0	1630	2	0	0	1632	68	0	125	0	0	193	223	1548	1	2	0	1774	1	0	0	0	0	0	1	3600				
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7:00 AM	0	393	0	0	0	393	1	0	8	0	0	9	19	399	0	0	0	418	0	0	0	0	0	0	0	820				
7:15 AM	0	400	0	0	0	400	2	0	10	0	0	12	30	472	1	0	0	503	0	0	0	0	0	0	0	915				
7:30 AM	0	433	0	0	0	433	1	0	18	0	0	19	53	432	1	0	0	486	0	0	0	0	0	0	1	938				
7:45 AM	0	407	0	0	0	407	5	0	14	0	0	19	67	410	0	0	0	477	0	0	0	0	0	0	0	903				
Hourly Total	0	1633	0	0	0	1633	9	0	50	0	0	59	169	1713	2	0	0	1884	0	0	0	0	0	0	1	3576				
8:00 AM	0	409	0	0	0	409	5	1	12	0	0	18	43	439	0	1	0	483	0	0	0	0	0	0	0	910				
8:15 AM	0	413	0	0	0	413	4	1	14	0	0	19	34	446	0	0	0	480	0	0	0	0	0	0	0	912				
8:30 AM	0	403	0	0	0	403	4	0	19	0	0	23	32	346	0	0	0	378	0	0	0	0	0	0	0	804				
8:45 AM	0	405	0	0	0	405	3	0	20	0	0	23	36	422	0	0	0	458	0	0	0	0	0	0	0	886				
Hourly Total	0	1630	0	0	0	1630	16	2	65	0	0	83	145	1653	0	1	0	1799	0	0	0	0	0	0	0	3512				
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4:00 PM	0	391	0	0	0	391	9	0	36	0	0	45	36	322	1	0	0	359	1	0	0	0	0	0	1	796				
4:15 PM	0	375	0	0	0	375	8	0	28	0	0	36	40	359	0	0	0	399	0	0	0	0	0	0	0	810				
4:30 PM	0	428	0	0	0	428	10	0	54	0	0	64	34	348	0	0	0	382	0	0	0	0	0	0	0	874				
4:45 PM	0	433	1	0	0	434	6	0	33	0	0	39	44	358	0	0	0	402	1	0	0	0	0	0	1	876				
Hourly Total	0	1627	1	0	0	1628	33	0	151	0	0	184	154	1387	1	0	0	1542	2	0	0	0	0	0	2	3356				
5:00 PM	0	407	0	0	0	407	8	0	55	0	0	63	34	443	1	1	0	479	1	0	0	0	0	0	1	950				
5:15 PM	0	408	0	0	0	408	9	0	43	0	0	52	31	368	1	1	0	401	1	0	0	0	0	0	1	862				
5:30 PM	1	433	0	0	0	434	4	0	30	0	0	34	32	361	1	3	0	397	1	0	1	0	0	0	2	867				
5:45 PM	0	429	0	0	0	429	7	0	31	0	0	38	26	397	0	1	0	424	0	0	0	0	0	0	0	891				
Hourly Total	1	1677	0	0	0	1678	28	0	159	0	0	187	123	1569	3	6	0	1701	3	0	1	0	0	0	4	3570				
Grand Total	2	11429	3	1	0	11435	245	2	793	0	1	1040	1234	10813	9	9	0	12065	10	0	1	0	1	1	11	24551				
Approach %	0.0	99.9	0.0	0.0	-	-	23.6	0.2	76.3	0.0	-	-	10.2	89.6	0.1	0.1	-	90.9	0.0	9.1	0.0	-	-	-	-	-	-	-	-	-
Total %	0.0	46.6	0.0	0.0	-	46.6	1.0	0.0	3.2	0.0	-	4.2	5.0	44.0	0.0	0.0	-	49.1	0.0	0.0	0.0	0.0	-	0.0	-	-	-	-	-	-
Lights	2	11083	3	1	-	11089	238	2	786	0	-	1026	1225	10537	9	9	-	11780	10	0	1	0	-	-	11	23906				
% Lights	100.0	97.0	100.0	100.0	-	97.0	97.1	100.0	99.1	-	-	98.7	99.3	97.4	100.0	100.0	-	97.6	100.0	-	100.0	-	-	100.0	97.4					
Buses	0	14	0	0	-	14	0	0	0	0	-	0	0	16	0	0	-	16	0	0	0	0	-	-	0	30				
% Buses	0.0	0.1	0.0	0.0	-	0.1	0.0	0.0	0.0	-	0.0	0.0	0.1	0.0	0.0	-	0.1	0.0	-	0.0	-	0.0	-	0.0	0.1					
Trucks	0	332	0	0	-	332	7	0	7	0	-	14	9	260	0	0	-	269	0	0	0	0	-	-	0	615				
% Trucks	0.0	2.9	0.0	0.0	-	2.9	2.9	0.0	0.9	-	-	1.3	0.7	2.4	0.0	0.0	-	2.2	0.0	-	0.0	-	-	0.0	2.5					
Pedestrians	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	-	-	1	-	-	-		
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-	-		



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.874101, -
75.544727

Imperial Traffic & Data Collection
www.imperialtdc.com
PO BOX 4673
Cherry Hill, New Jersey, United States 08034
609-706-6100

Count Name: Route 202 &
Corporate Center Way
Site Code: ID 3
Start Date: 04/22/2017
Page No: 2



Turning Movement Data Plot



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.874101, -
75.544727

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Count Name: Route 202 &
Corporate Center Way
Site Code: ID 3
Start Date: 04/22/2017
Page No: 3

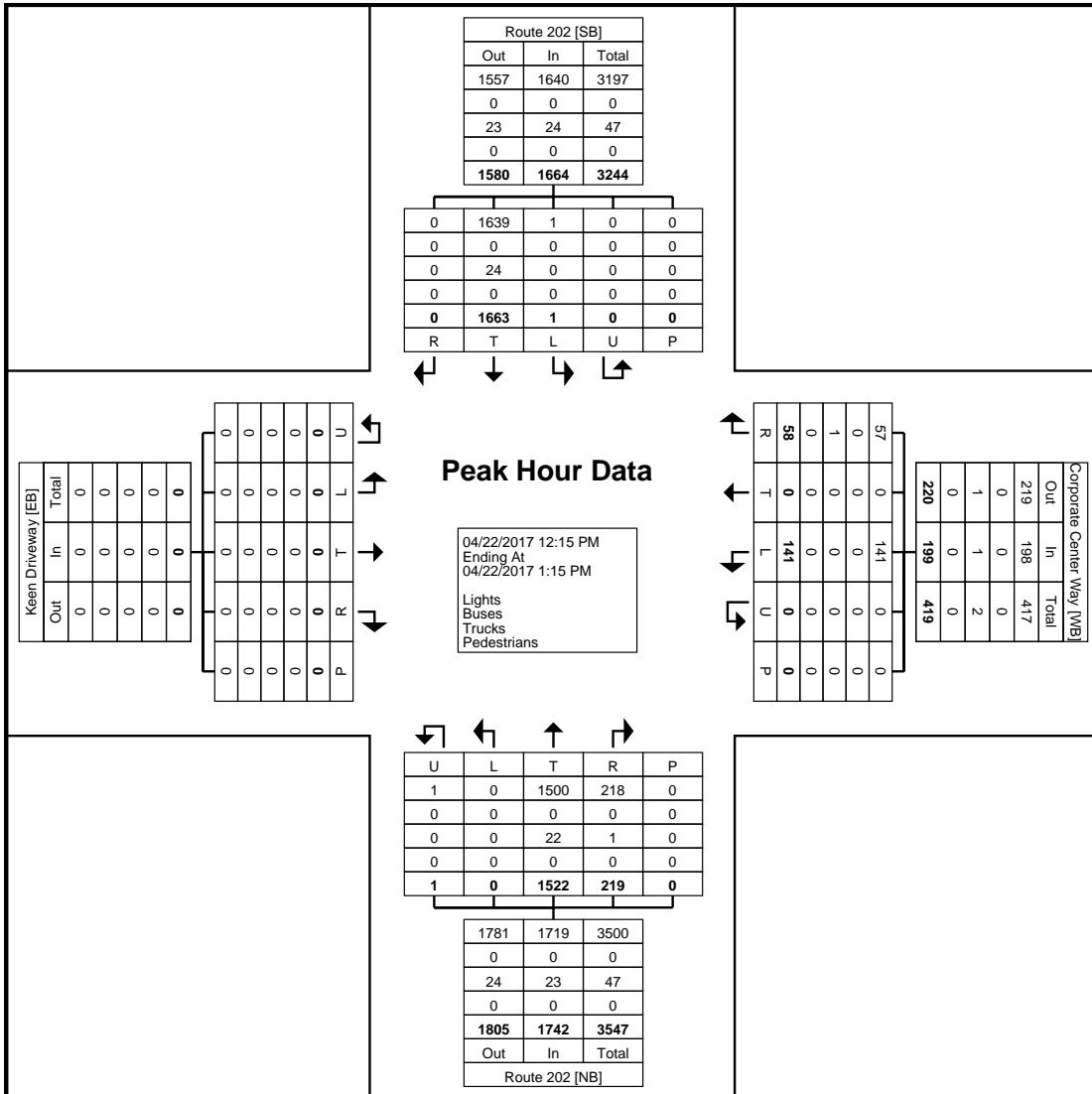
Turning Movement Peak Hour Data (12:15 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.874101, -
75.544727

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Count Name: Route 202 &
Corporate Center Way
Site Code: ID 3
Start Date: 04/22/2017
Page No: 4



Turning Movement Peak Hour Data Plot (12:15 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.874101, -
75.544727

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Count Name: Route 202 &
Corporate Center Way
Site Code: ID 3
Start Date: 04/22/2017
Page No: 5

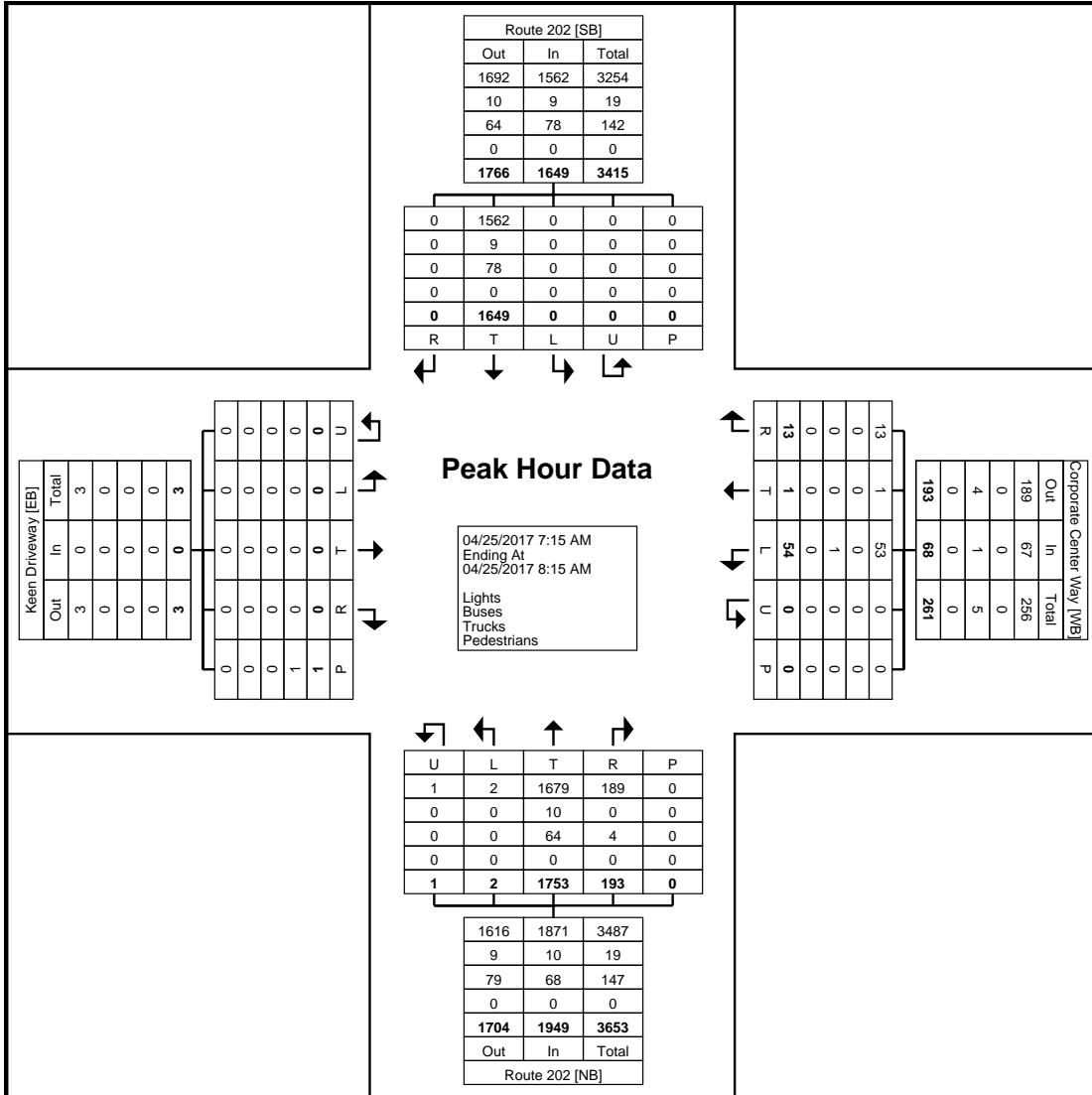
Turning Movement Peak Hour Data (7:15 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.874101, -
75.544727

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Count Name: Route 202 &
Corporate Center Way
Site Code: ID 3
Start Date: 04/22/2017
Page No: 6



Turning Movement Peak Hour Data Plot (7:15 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.874101, -
75.544727

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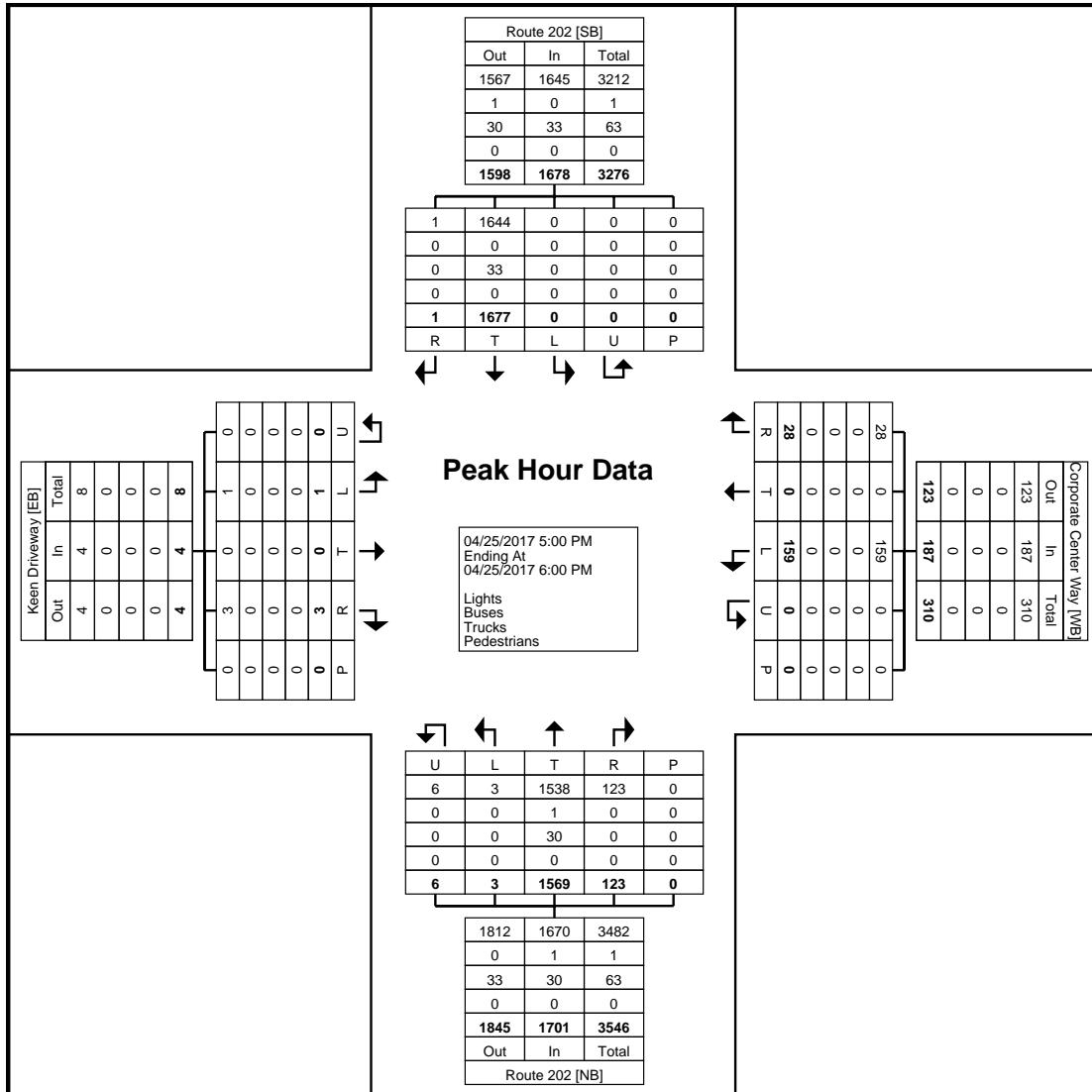
Count Name: Route 202 &
Corporate Center Way
Site Code: ID 3
Start Date: 04/22/2017
Page No: 7

Turning Movement Peak Hour Data (5:00 PM)

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.874101, -
75.544727

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Count Name: Route 202 &
Corporate Center Way
Site Code: ID 3
Start Date: 04/22/2017
Page No: 8



Turning Movement Peak Hour Data Plot (5:00 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.856558, -75.56815

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Count Name: Ridge Road &
Ring Road
Site Code: ID 9
Start Date: 04/22/2017
Page No: 1

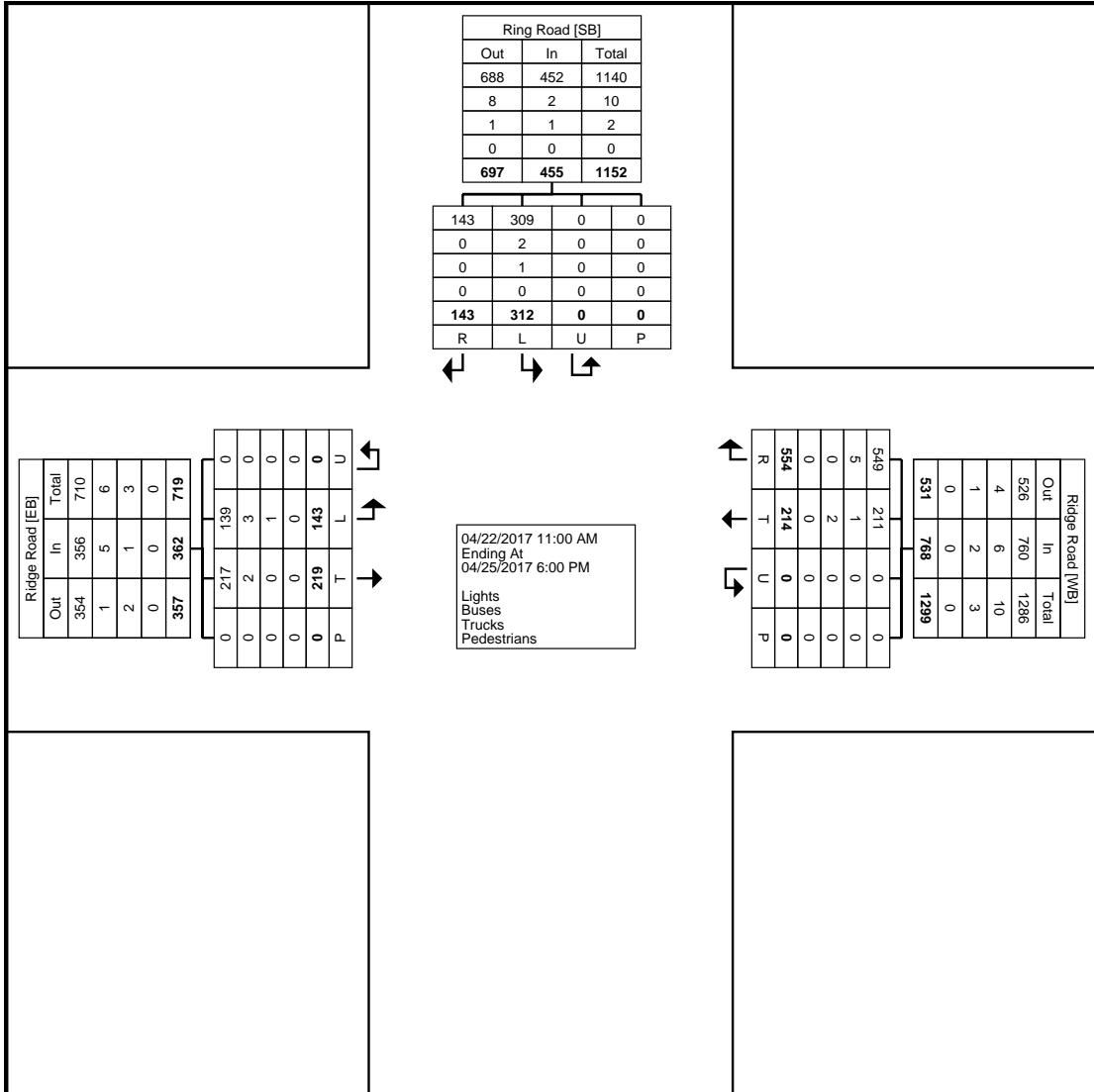
Turning Movement Data



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.856558, -75.56815

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Count Name: Ridge Road &
Ring Road
Site Code: ID 9
Start Date: 04/22/2017
Page No: 2



Turning Movement Data Plot



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.856558, -75.56815

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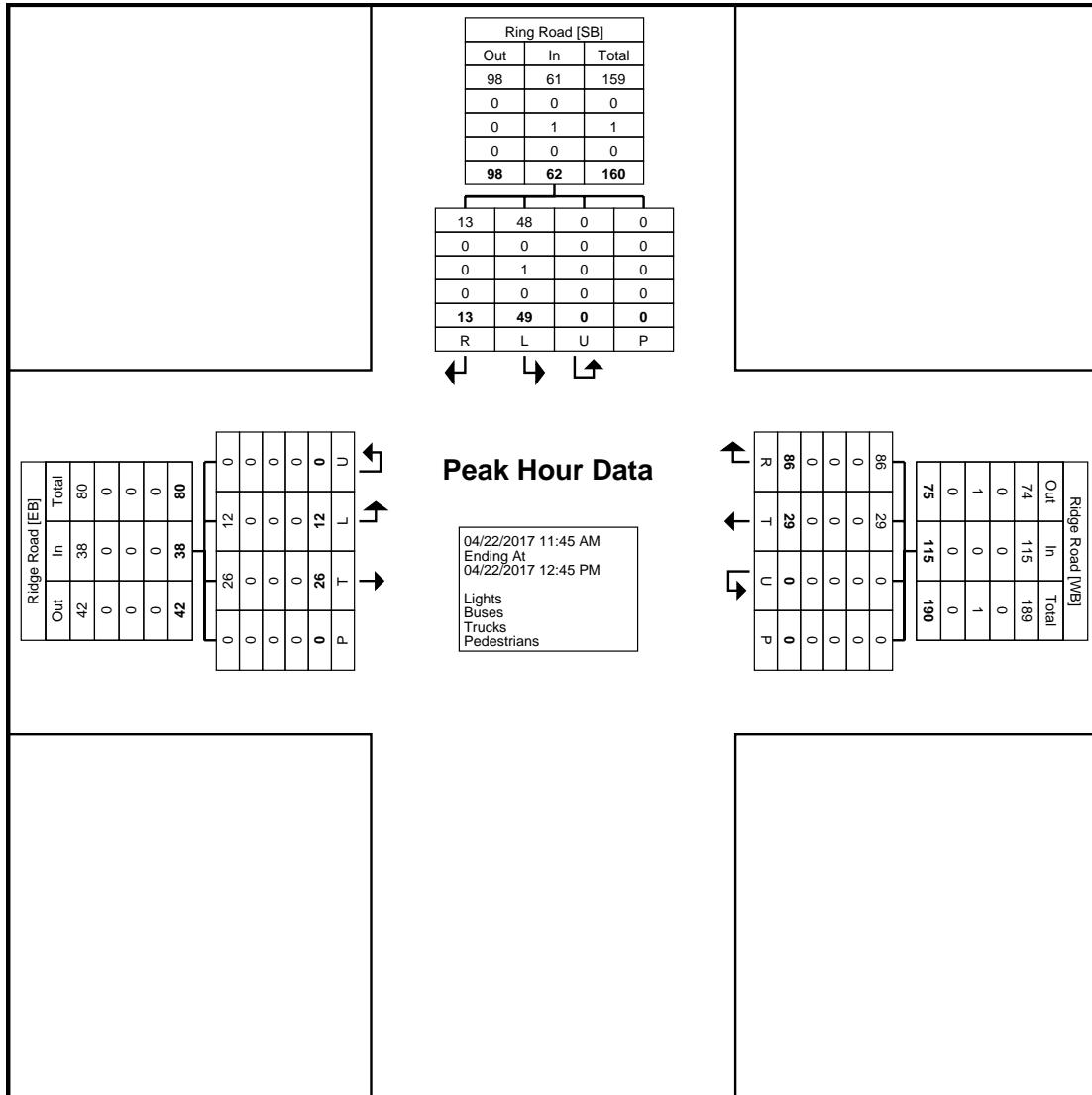
Count Name: Ridge Road &
Ring Road
Site Code: ID 9
Start Date: 04/22/2017
Page No: 3

Turning Movement Peak Hour Data (11:45 AM)

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.856558, -75.56815

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Count Name: Ridge Road &
Ring Road
Site Code: ID 9
Start Date: 04/22/2017
Page No: 4



Turning Movement Peak Hour Data Plot (11:45 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.856558, -75.56815

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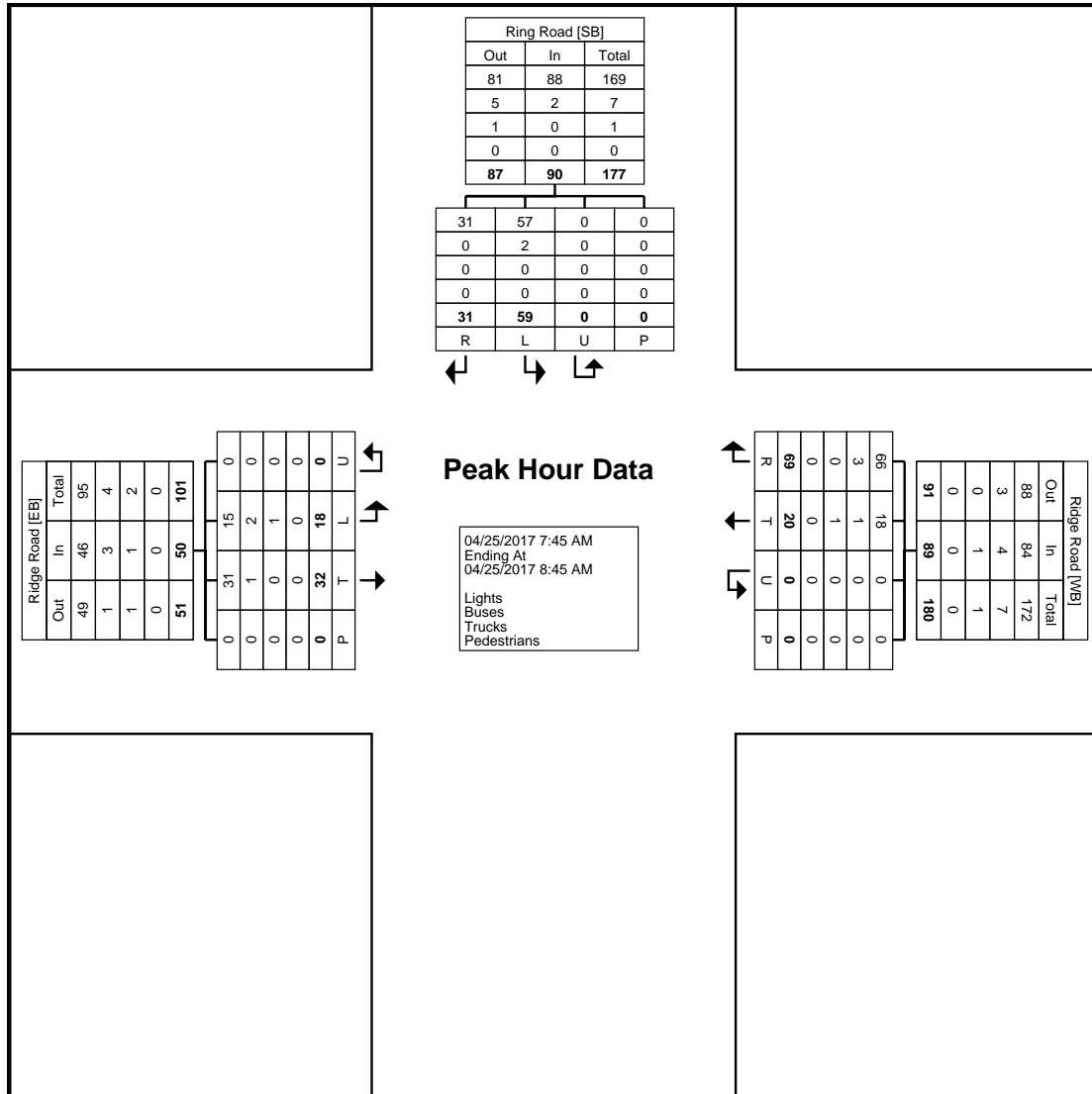
Count Name: Ridge Road &
Ring Road
Site Code: ID 9
Start Date: 04/22/2017
Page No: 5

Turning Movement Peak Hour Data (7:45 AM)

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.856558, -75.56815

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Count Name: Ridge Road &
Ring Road
Site Code: ID 9
Start Date: 04/22/2017
Page No: 6



Turning Movement Peak Hour Data Plot (7:45 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.856558, -75.56815

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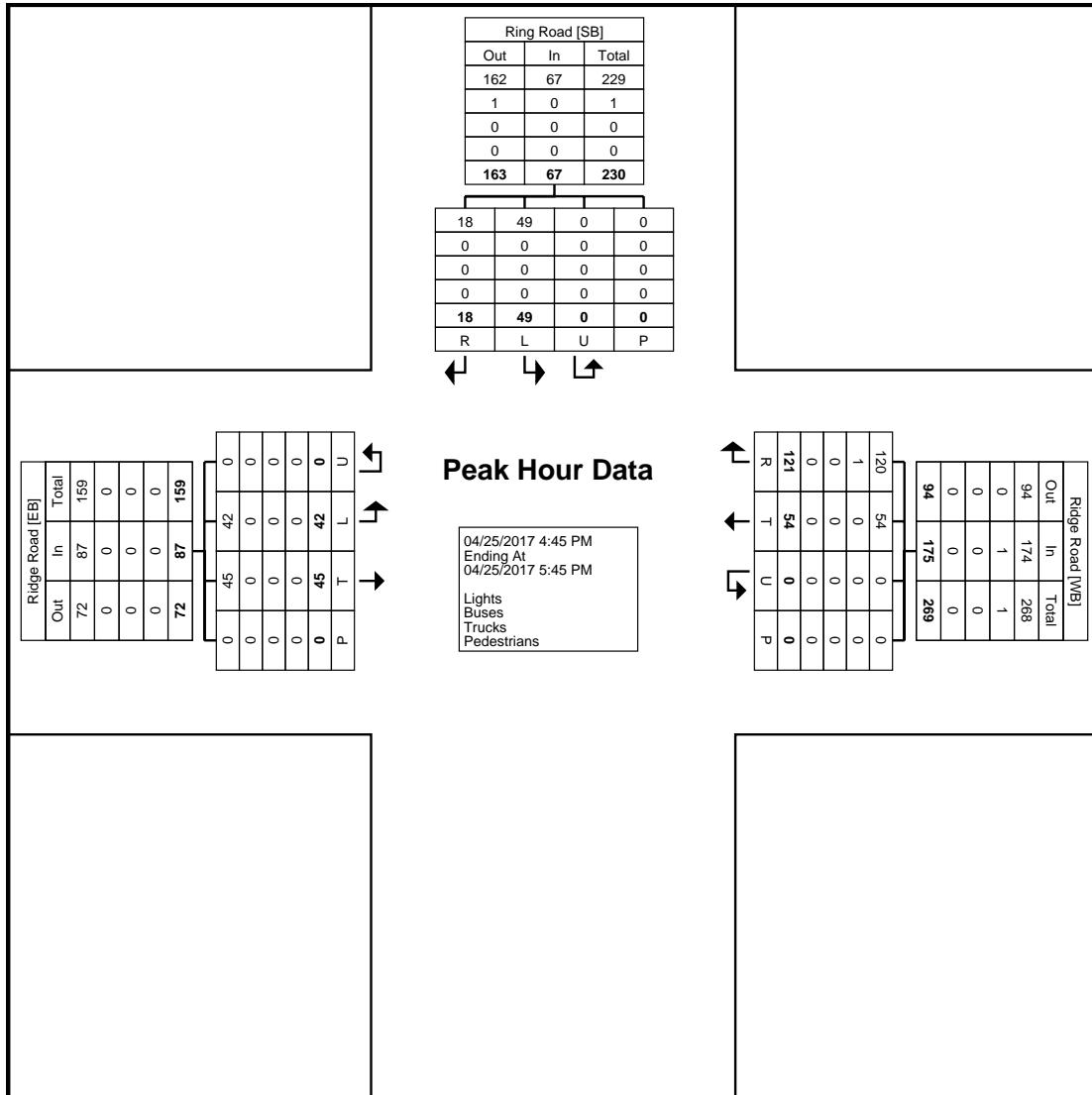
Count Name: Ridge Road &
Ring Road
Site Code: ID 9
Start Date: 04/22/2017
Page No: 7

Turning Movement Peak Hour Data (4:45 PM)

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.856558, -75.56815

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609-706-6100

Count Name: Ridge Road &
Ring Road
Site Code: ID 9
Start Date: 04/22/2017
Page No: 8



Turning Movement Peak Hour Data Plot (4:45 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.862166, -75.55971

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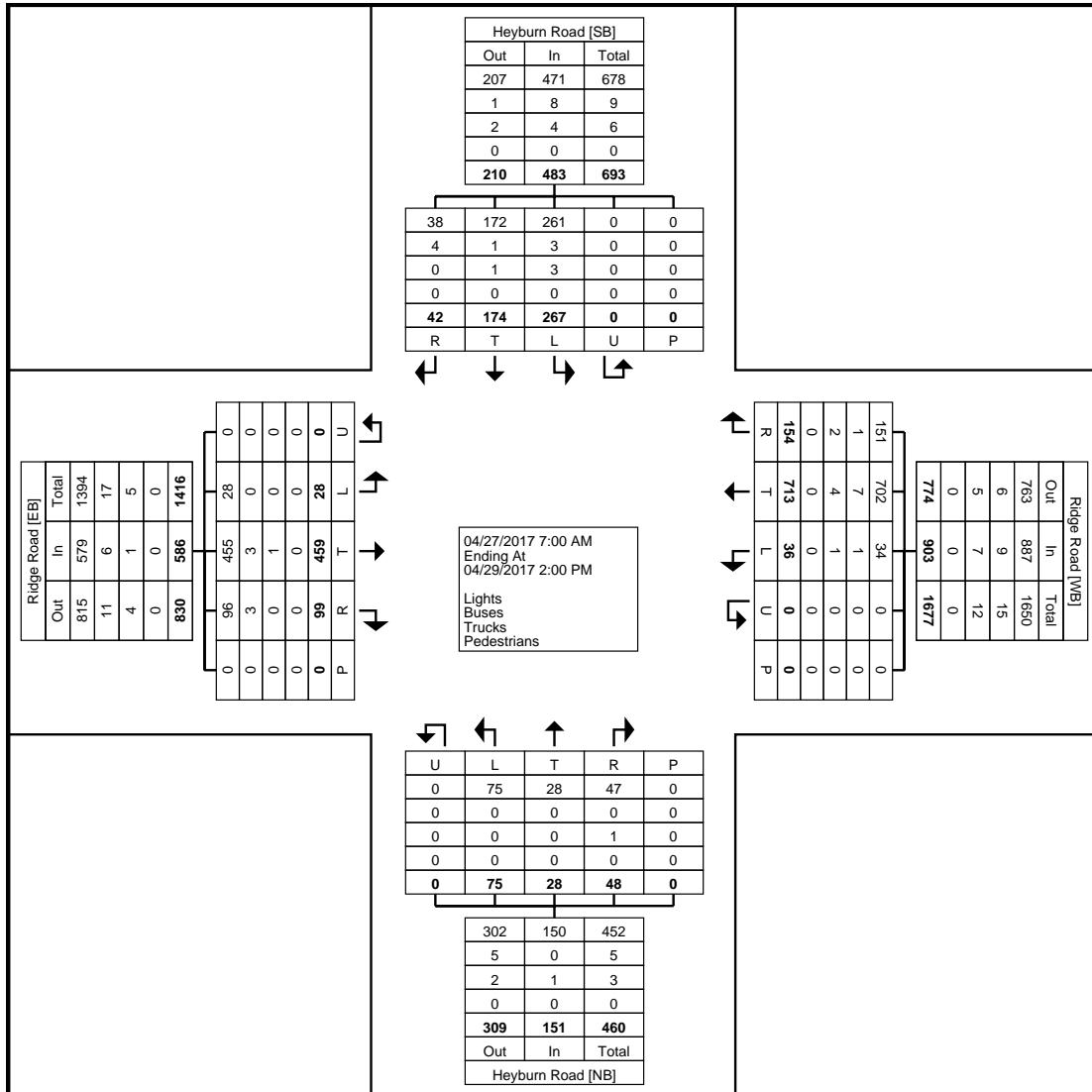
Count Name: Ridge Road &
Heyburn Road
Site Code: 8
Start Date: 04/27/2017
Page No: 1

Turning Movement Data

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.862166, -75.55971

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Count Name: Ridge Road &
Heyburn Road
Site Code: 8
Start Date: 04/27/2017
Page No: 2



Turning Movement Data Plot



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.862166, -75.55971

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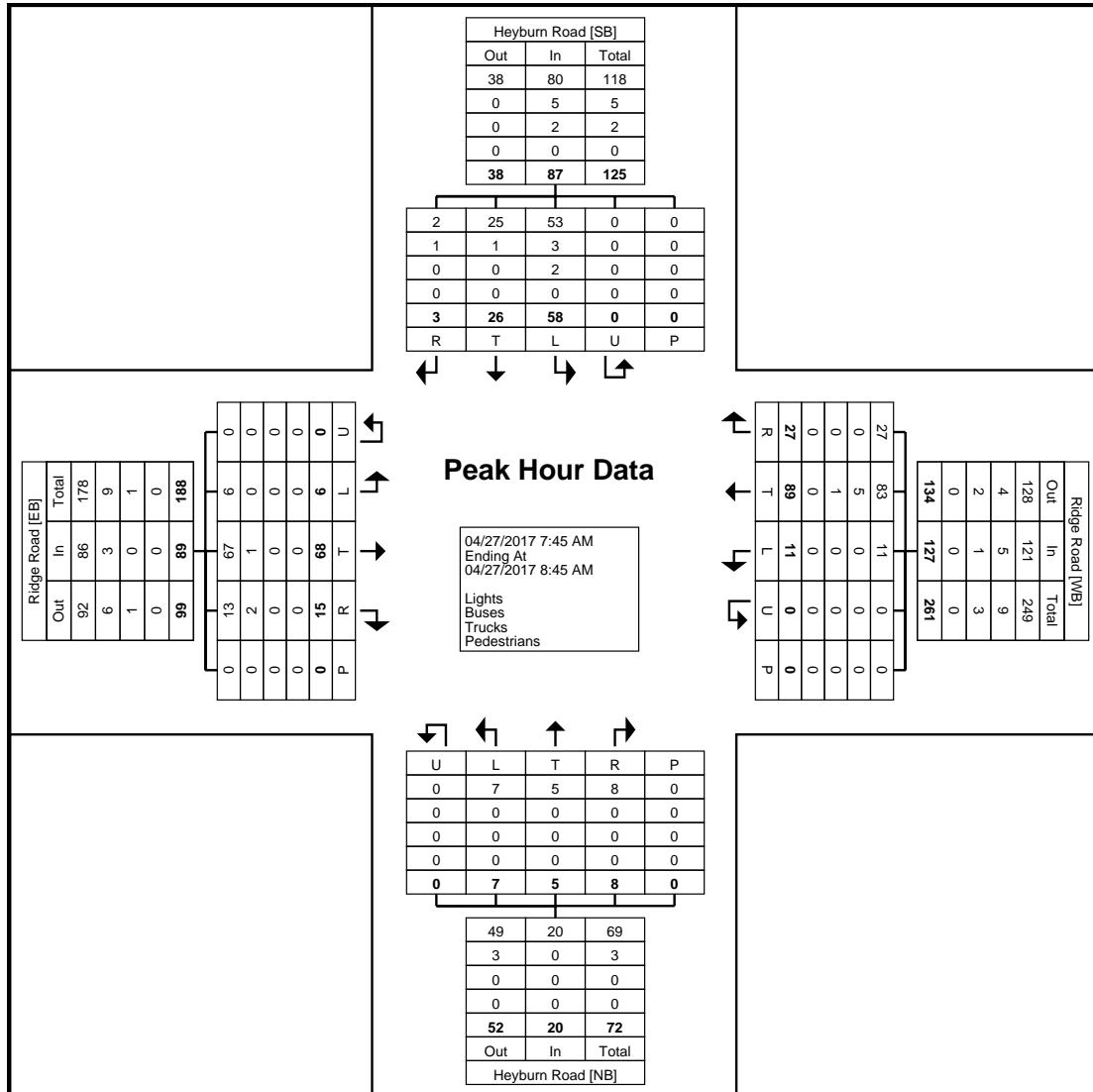
Count Name: Ridge Road &
Heyburn Road
Site Code: 8
Start Date: 04/27/2017
Page No: 3

Turning Movement Peak Hour Data (7:45 AM)

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.862166, -75.55971

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Count Name: Ridge Road &
Heyburn Road
Site Code: 8
Start Date: 04/27/2017
Page No: 4



Turning Movement Peak Hour Data Plot (7:45 AM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.862166, -75.55971

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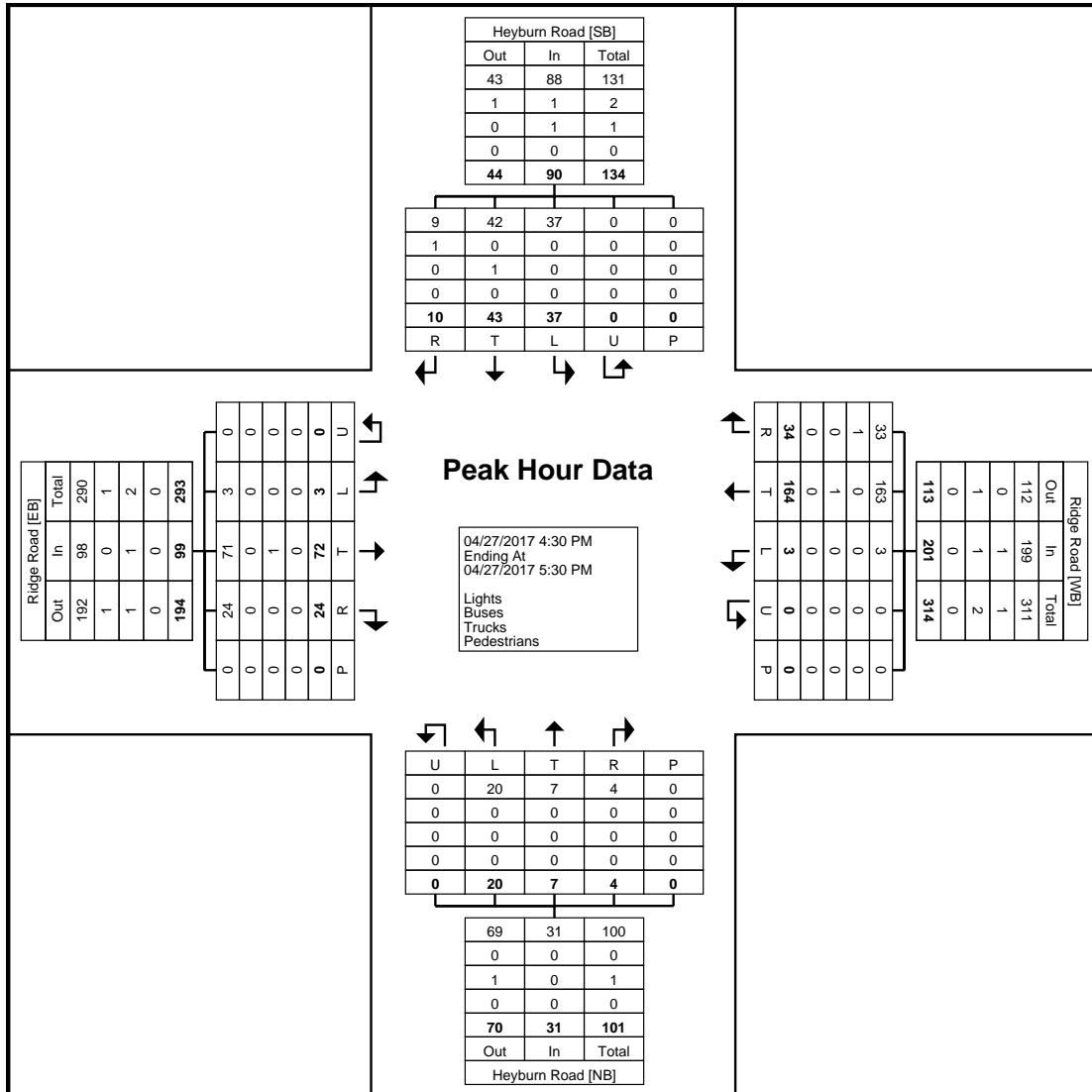
Count Name: Ridge Road &
Heyburn Road
Site Code: 8
Start Date: 04/27/2017
Page No: 5

Turning Movement Peak Hour Data (4:30 PM)

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.862166, -75.55971

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Count Name: Ridge Road &
Heyburn Road
Site Code: 8
Start Date: 04/27/2017
Page No: 6



Turning Movement Peak Hour Data Plot (4:30 PM)



Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.862166, -75.55971

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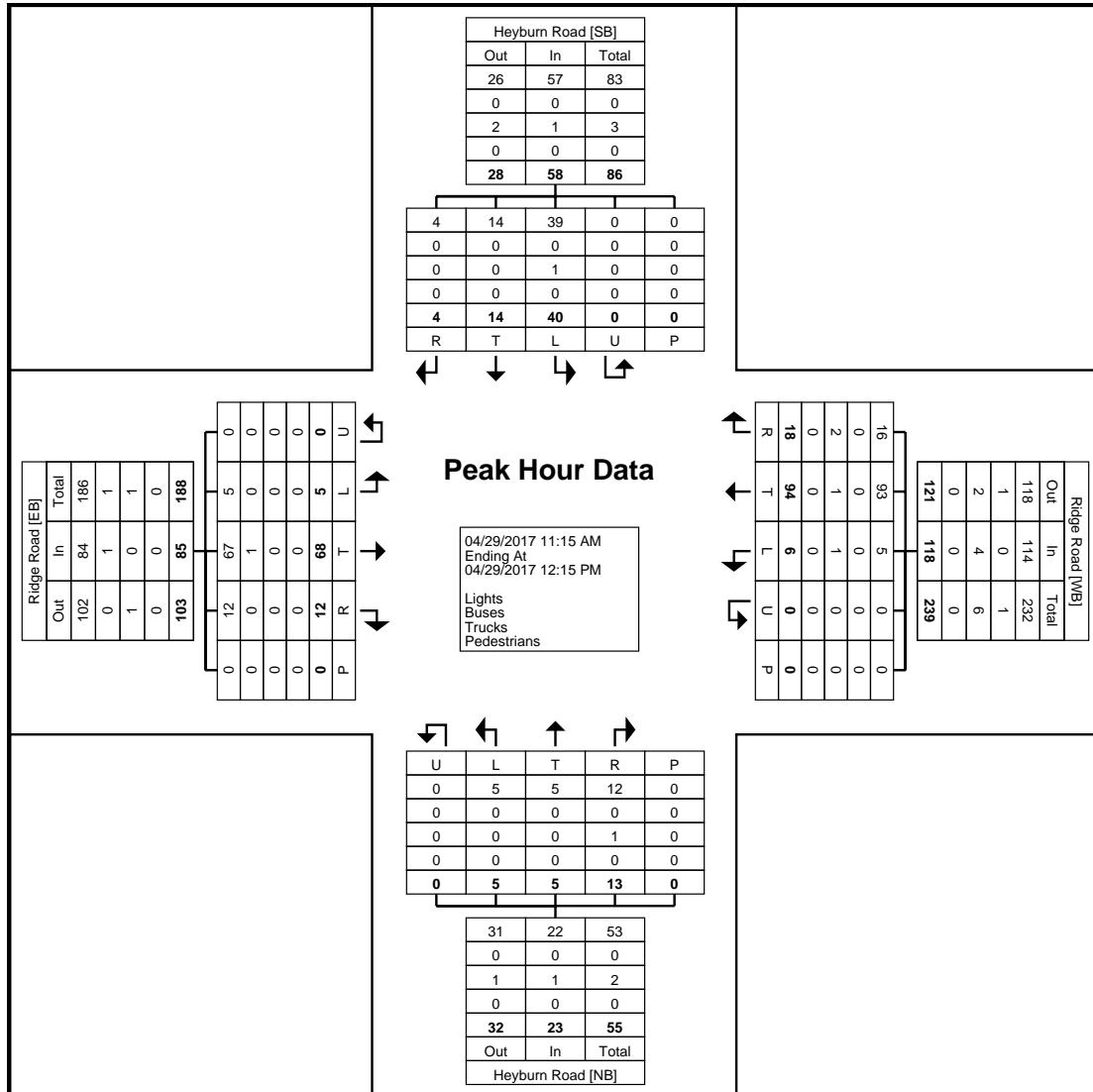
Count Name: Ridge Road &
Heyburn Road
Site Code: 8
Start Date: 04/27/2017
Page No: 7

Turning Movement Peak Hour Data (11:15 AM)

Project: Chadds Ford: Route
202
Installed By: MAK
Removed By: MAK
Location: 39.862166, -75.55971

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PO BOX 4673
Cherry Hill, New Jersey, United States 08034
609-706-6100

Count Name: Ridge Road &
Heyburn Road
Site Code: 8
Start Date: 04/27/2017
Page No: 8



Turning Movement Peak Hour Data Plot (11:15 AM)